tt Library

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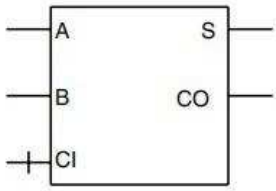
ADDFX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDF cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B) with carry-in (CI). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT			OUTPUT	
A	B	CI	CO	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

Footprint

Cell Name	Area
ADDFX1H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1H7L	0.00279	0.00312	0.00237	0.06154	0.06099

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1H7L	0.00000	3.56969	4.05477

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7L	A->CO (RR)	0.06182	0.20640	0.55225
	B->CO (RR)	0.06225	0.20540	0.54875
	CI->CO (RR)	0.05892	0.20164	0.54348

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7L	A->CO (FF)	0.08464	0.21261	0.51873
	B->CO (FF)	0.08857	0.21703	0.52459
	CI->CO (FF)	0.08100	0.20947	0.50909

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7L	A->S (-R)	0.15104	0.30406	0.69029
	B->S (-R)	0.15190	0.30732	0.69885
	CI->S (-R)	0.14334	0.29867	0.68583

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7L	A->S (-F)	0.09088	0.22461	0.53820
	B->S (-F)	0.08791	0.21581	0.52118
	CI->S (-F)	0.09470	0.22619	0.53417

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7L	A	0.00140	0.00150	0.00189
	A	-0.00004	-0.00003	-0.00001
	A	0.00007	0.00008	0.00009
	A	0.00169	0.00178	0.00218
	B	0.00135	0.00144	0.00179
	B	-0.00003	-0.00002	0.00000
	B	0.00004	0.00004	0.00005
	B	0.00186	0.00195	0.00230
	CI	0.00141	0.00148	0.00175
	CI	-0.00002	-0.00002	-0.00000
	CI	0.00003	0.00004	0.00007
	CI	0.00167	0.00174	0.00200

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7L	A	0.00167	0.00177	0.00225
	A	0.00003	0.00004	0.00007
	A	-0.00003	-0.00003	-0.00003
	A	0.00138	0.00149	0.00196
	B	0.00176	0.00186	0.00230
	B	0.00000	0.00002	0.00007
	B	-0.00003	-0.00002	-0.00001
	B	0.00122	0.00132	0.00176
	CI	0.00174	0.00180	0.00214
	CI	0.00003	0.00004	0.00005
	CI	-0.00003	-0.00002	0.00000
	CI	0.00145	0.00152	0.00186

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7L	A	0.00167	0.00177	0.00225
	A	0.00008	0.00009	0.00010
	A	-0.00001	0.00002	0.00002
	A	0.00271	0.00294	0.00372
	B	0.00176	0.00186	0.00230
	B	0.00016	0.00016	0.00016
	B	-0.00001	-0.00001	-0.00001
	B	0.00328	0.00341	0.00399
	CI	0.00174	0.00181	0.00215
	CI	0.00011	0.00013	0.00013
	CI	-0.00002	-0.00002	0.00000
	CI	0.00261	0.00275	0.00337

Internal switching power(pJ) to S falling :

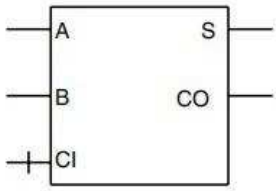
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7L	A	0.00286	0.00309	0.00406
	A	0.00001	0.00001	0.00003
	A	0.00009	0.00010	0.00014
	A	0.00169	0.00178	0.00218
	B	0.00301	0.00318	0.00390
	B	-0.00004	-0.00001	0.00006
	B	0.00016	0.00018	0.00021
	B	0.00186	0.00194	0.00229
	CI	0.00265	0.00284	0.00362
	CI	-0.00003	-0.00001	0.00000
	CI	0.00007	0.00014	0.00014
	CI	0.00167	0.00174	0.00200

ADDFX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDF cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B) with carry-in (CI). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT			OUTPUT	
A	B	CI	CO	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

Footprint

Cell Name	Area
ADDFX1P4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1P4H7L	0.00280	0.00318	0.00240	0.07006	0.06958

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1P4H7L	0.00000	3.72723	4.21231

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7L	A->CO (RR)	0.06212	0.20786	0.55503
	B->CO (RR)	0.06277	0.20694	0.55167
	CI->CO (RR)	0.05908	0.20284	0.54592

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7L	A->CO (FF)	0.08572	0.21460	0.52158
	B->CO (FF)	0.09012	0.21936	0.52729
	CI->CO (FF)	0.08179	0.21116	0.51150

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7L	A->S (-R)	0.15457	0.30822	0.69577
	B->S (-R)	0.15579	0.31173	0.70473
	CI->S (-R)	0.14648	0.30241	0.69095

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7L	A->S (-F)	0.09090	0.22543	0.53903
	B->S (-F)	0.08783	0.21628	0.52139
	CI->S (-F)	0.09471	0.22699	0.53490

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7L	A	0.00144	0.00154	0.00197
	A	-0.00004	-0.00003	-0.00001
	A	0.00007	0.00008	0.00008
	A	0.00175	0.00185	0.00228
	B	0.00139	0.00149	0.00186
	B	-0.00003	-0.00002	0.00000
	B	0.00001	0.00004	0.00005
	B	0.00193	0.00202	0.00240
	CI	0.00145	0.00153	0.00182
	CI	-0.00003	-0.00002	-0.00000
	CI	0.00002	0.00004	0.00005
	CI	0.00173	0.00180	0.00209

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7L	A	0.00173	0.00184	0.00236
	A	0.00006	0.00007	0.00008
	A	-0.00005	-0.00003	-0.00003
	A	0.00143	0.00154	0.00205
	B	0.00183	0.00193	0.00242
	B	0.00004	0.00004	0.00005
	B	-0.00003	-0.00002	-0.00000
	B	0.00126	0.00136	0.00184
	CI	0.00180	0.00187	0.00224
	CI	0.00002	0.00003	0.00005
	CI	-0.00002	-0.00002	-0.00001
	CI	0.00149	0.00157	0.00194

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7L	A	0.00173	0.00184	0.00236
	A	0.00009	0.00009	0.00009
	A	0.00000	0.00002	0.00003
	A	0.00282	0.00300	0.00383
	B	0.00183	0.00194	0.00242
	B	0.00014	0.00016	0.00018
	B	-0.00001	-0.00000	0.00000
	B	0.00337	0.00350	0.00411
	CI	0.00180	0.00188	0.00225
	CI	0.00013	0.00013	0.00021
	CI	-0.00002	-0.00001	-0.00001
	CI	0.00267	0.00282	0.00348

Internal switching power(pJ) to S falling :

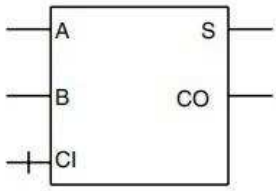
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7L	A	0.00290	0.00314	0.00420
	A	-0.00000	0.00001	0.00003
	A	0.00008	0.00010	0.00012
	A	0.00174	0.00185	0.00228
	B	0.00307	0.00325	0.00402
	B	-0.00002	-0.00001	0.00002
	B	0.00017	0.00017	0.00018
	B	0.00193	0.00202	0.00240
	CI	0.00269	0.00289	0.00373
	CI	-0.00001	-0.00001	0.00001
	CI	0.00012	0.00014	0.00015
	CI	0.00173	0.00180	0.00209

ADDFX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDF cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B) with carry-in (CI). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT			OUTPUT	
A	B	CI	CO	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

Footprint

Cell Name	Area
ADDFX2H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX2H7L	0.00281	0.00327	0.00229	0.09044	0.09018

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX2H7L	0.00000	4.65798	5.14304

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7L	A->CO (RR)	0.06569	0.21359	0.56432
	B->CO (RR)	0.06702	0.21364	0.56185
	CI->CO (RR)	0.06301	0.20906	0.55569

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7L	A->CO (FF)	0.09154	0.22393	0.53668
	B->CO (FF)	0.09598	0.22874	0.54242
	CI->CO (FF)	0.08789	0.22081	0.52676

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7L	A->S (-R)	0.16952	0.32408	0.71497
	B->S (-R)	0.17071	0.32749	0.72352
	CI->S (-R)	0.16196	0.31868	0.71044

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7L	A->S (-F)	0.09767	0.23578	0.55534
	B->S (-F)	0.09417	0.22646	0.53814
	CI->S (-F)	0.09995	0.23633	0.55054

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7L	A	0.00171	0.00184	0.00242
	A	-0.00005	-0.00003	0.00000
	A	0.00006	0.00008	0.00013
	A	0.00202	0.00215	0.00274
	B	0.00166	0.00177	0.00230
	B	-0.00005	-0.00004	-0.00001
	B	0.00004	0.00004	0.00006
	B	0.00222	0.00234	0.00286
	CI	0.00173	0.00183	0.00224
	CI	-0.00003	-0.00002	-0.00001
	CI	0.00003	0.00004	0.00008
	CI	0.00200	0.00210	0.00251

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7L	A	0.00201	0.00215	0.00286
	A	0.00006	0.00007	0.00007
	A	-0.00004	-0.00003	-0.00002
	A	0.00169	0.00183	0.00253
	B	0.00211	0.00224	0.00290
	B	0.00004	0.00004	0.00007
	B	-0.00004	-0.00002	-0.00001
	B	0.00152	0.00166	0.00231
	CI	0.00207	0.00216	0.00267
	CI	0.00002	0.00004	0.00007
	CI	-0.00003	-0.00002	0.00000
	CI	0.00176	0.00186	0.00237

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7L	A	0.00202	0.00216	0.00286
	A	0.00002	0.00009	0.00010
	A	0.00003	0.00003	0.00003
	A	0.00307	0.00327	0.00431
	B	0.00212	0.00225	0.00291
	B	0.00015	0.00016	0.00024
	B	0.00000	0.00000	0.00000
	B	0.00362	0.00376	0.00452
	CI	0.00207	0.00216	0.00268
	CI	0.00011	0.00012	0.00016
	CI	-0.00003	-0.00002	0.00000
	CI	0.00288	0.00304	0.00390

Internal switching power(pJ) to S falling :

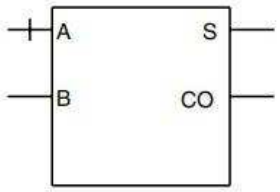
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7L	A	0.00317	0.00349	0.00488
	A	0.00002	0.00002	0.00002
	A	0.00008	0.00009	0.00009
	A	0.00203	0.00215	0.00274
	B	0.00336	0.00360	0.00461
	B	-0.00001	-0.00001	-0.00000
	B	0.00016	0.00017	0.00017
	B	0.00222	0.00233	0.00286
	CI	0.00294	0.00321	0.00434
	CI	-0.00001	-0.00001	0.00001
	CI	0.00011	0.00013	0.00013
	CI	0.00200	0.00209	0.00250

ADDHX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDH cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT		OUTPUT	
A	B	CO	S
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

Footprint

Cell Name	Area
ADDHX1H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1H7L	0.00213	0.00345	0.07479	0.07452

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1H7L	0.00000	6.31490	7.24207

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7L	A->CO (RR)	0.02907	0.15565	0.46986
	B->CO (RR)	0.03059	0.15626	0.46966

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7L	A->CO (FF)	0.02821	0.14080	0.42204
	B->CO (FF)	0.03073	0.14517	0.42669

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7L	A->S (RR)	!B	0.04177	0.18024	0.51826
	A->S (FR)	B	0.05466	0.19780	0.54846
	B->S (RR)	!A	0.03067	0.15902	0.48001
	B->S (FR)	A	0.04027	0.18525	0.54140

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7L	A->S (FF)	!B	0.04496	0.16476	0.45155
	A->S (RF)	B	0.05460	0.15302	0.37698
	B->S (FF)	!A	0.03084	0.14066	0.41381
	B->S (RF)	A	0.03843	0.13530	0.35383

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7L	A	0.00121	0.00159	0.00290
	A	-0.00001	-0.00001	-0.00000
	A	0.00000	0.00002	0.00002
	A	0.00186	0.00223	0.00355
	B	0.00095	0.00140	0.00293
	B	-0.00000	-0.00000	0.00000
	B	-0.00001	-0.00001	0.00000
	B	0.00206	0.00251	0.00404

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7L	A	0.00176	0.00218	0.00362
	A	0.00001	0.00001	0.00002
	A	-0.00002	-0.00002	0.00000
	A	0.00112	0.00154	0.00297
	B	0.00180	0.00237	0.00413
	B	0.00000	0.00000	0.00004
	B	0.00001	0.00001	0.00002
	B	0.00072	0.00126	0.00301

Internal switching power(pJ) to S rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7L	A	B	0.00176	0.00218	0.00363
	A	B	0.00001	0.00001	0.00001
	A	B	-0.00002	-0.00002	-0.00001
	A	B	0.00112	0.00154	0.00298
	A	!B	0.00123	0.00173	0.00347
	A	!B	0.00004	0.00004	0.00009
	A	!B	-0.00002	0.00000	0.00000
	A	!B	0.00289	0.00336	0.00510
	B	A	0.00184	0.00237	0.00413
	B	A	0.00000	0.00000	0.00000
	B	A	0.00001	0.00001	0.00001
	B	A	0.00073	0.00126	0.00302
	B	!A	0.00029	0.00104	0.00368
	B	!A	0.00005	0.00006	0.00008
	B	!A	-0.00005	-0.00005	-0.00005
	B	!A	0.00285	0.00360	0.00624

Internal switching power(pJ) to S falling (conditional):

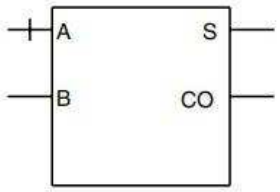
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7L	A	B	0.00121	0.00159	0.00290
	A	B	-0.00001	-0.00001	0.00000
	A	B	0.00001	0.00002	0.00003
	A	B	0.00184	0.00223	0.00355
	A	!B	0.00298	0.00348	0.00545
	A	!B	-0.00006	-0.00004	-0.00002
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00128	0.00180	0.00376
	B	A	0.00095	0.00140	0.00293
	B	A	-0.00000	-0.00000	0.00000
	B	A	-0.00001	-0.00001	-0.00001
	B	A	0.00206	0.00251	0.00404
	B	!A	0.00262	0.00348	0.00638
	B	!A	-0.00006	-0.00006	-0.00003
	B	!A	0.00005	0.00005	0.00005
	B	!A	0.00010	0.00093	0.00383

ADDHX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDH cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT		OUTPUT	
A	B	CO	S
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

Footprint

Cell Name	Area
ADDHX1P4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1P4H7L	0.00222	0.00356	0.07953	0.07934

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1P4H7L	0.00000	6.71382	7.68791

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7L	A->CO (RR)	0.02882	0.15561	0.46998
	B->CO (RR)	0.03061	0.15644	0.47016

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7L	A->CO (FF)	0.02814	0.14158	0.42490
	B->CO (FF)	0.03089	0.14614	0.42921

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7L	A->S (RR)	!B	0.03919	0.17612	0.51074
	A->S (FR)	B	0.05011	0.19252	0.54222
	B->S (RR)	!A	0.02807	0.15536	0.47414
	B->S (FR)	A	0.03854	0.18305	0.53853

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7L	A->S (FF)	!B	0.04206	0.16144	0.44807
	A->S (RF)	B	0.04972	0.14703	0.36979
	B->S (FF)	!A	0.02911	0.13916	0.41384
	B->S (RF)	A	0.03565	0.13225	0.35157

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7L	A	0.00127	0.00169	0.00312
	A	-0.00001	-0.00001	0.00000
	A	0.00001	0.00002	0.00003
	A	0.00195	0.00235	0.00379
	B	0.00098	0.00146	0.00306
	B	-0.00000	-0.00000	-0.00000
	B	-0.00002	-0.00001	-0.00001
	B	0.00211	0.00259	0.00419

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7L	A	0.00183	0.00229	0.00385
	A	0.00001	0.00001	0.00002
	A	-0.00002	-0.00002	-0.00001
	A	0.00117	0.00162	0.00319
	B	0.00189	0.00244	0.00429
	B	0.00000	0.00000	0.00002
	B	0.00001	0.00001	0.00002
	B	0.00076	0.00132	0.00316

Internal switching power(pJ) to S rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7L	A	B	0.00183	0.00229	0.00386
	A	B	0.00001	0.00001	0.00002
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00116	0.00163	0.00319
	A	!B	0.00134	0.00188	0.00384
	A	!B	0.00001	0.00004	0.00004
	A	!B	-0.00000	0.00000	0.00001
	A	!B	0.00304	0.00358	0.00555
	B	A	0.00189	0.00245	0.00429
	B	A	0.00000	0.00000	0.00000
	B	A	0.00001	0.00001	0.00001
	B	A	0.00076	0.00132	0.00316
	B	!A	0.00027	0.00107	0.00388
	B	!A	0.00006	0.00006	0.00007
	B	!A	-0.00006	-0.00005	-0.00004
	B	!A	0.00290	0.00370	0.00652

Internal switching power(pJ) to S falling (conditional):

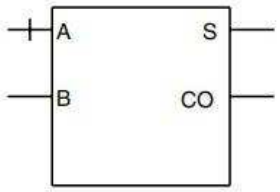
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7L	A	B	0.00128	0.00169	0.00312
	A	B	-0.00002	-0.00001	-0.00001
	A	B	0.00002	0.00002	0.00002
	A	B	0.00194	0.00235	0.00378
	A	!B	0.00310	0.00369	0.00592
	A	!B	-0.00004	-0.00003	-0.00001
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00134	0.00194	0.00416
	B	A	0.00098	0.00145	0.00306
	B	A	-0.00000	-0.00000	0.00000
	B	A	-0.00001	-0.00001	0.00001
	B	A	0.00211	0.00258	0.00419
	B	!A	0.00268	0.00361	0.00671
	B	!A	-0.00006	-0.00006	-0.00001
	B	!A	0.00004	0.00005	0.00006
	B	!A	0.00011	0.00099	0.00408

ADDHX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ADDH cell provides the arithmetic sum (S) and carry-out (CO) of two operands (A, B). The two outputs (S, CO) are represented by the logic equations:



Truth Table

INPUT		OUTPUT	
A	B	CO	S
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

Footprint

Cell Name	Area
ADDHX2H7L	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX2H7L	0.00253	0.00377	0.08611	0.08595

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX2H7L	0.00000	7.61133	8.38535

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7L	A->CO (RR)	0.02854	0.15564	0.47000
	B->CO (RR)	0.03053	0.15659	0.47040

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7L	A->CO (FF)	0.02797	0.14139	0.42361
	B->CO (FF)	0.03087	0.14611	0.42865

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7L	A->S (RR)	!B	0.03472	0.16510	0.48646
	A->S (FR)	B	0.04691	0.18939	0.54117
	B->S (RR)	!A	0.02666	0.15342	0.47136
	B->S (FR)	A	0.03804	0.18296	0.53927

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7L	A->S (FF)	!B	0.03737	0.15482	0.44044
	A->S (RF)	B	0.04611	0.13828	0.34955
	B->S (FF)	!A	0.02623	0.13370	0.40319
	B->S (RF)	A	0.03618	0.13315	0.35269

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7L	A	0.00132	0.00185	0.00368
	A	-0.00001	-0.00001	0.00000
	A	0.00001	0.00002	0.00002
	A	0.00214	0.00267	0.00450
	B	0.00108	0.00158	0.00328
	B	-0.00001	-0.00000	-0.00000
	B	-0.00001	-0.00001	0.00000
	B	0.00228	0.00278	0.00449

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7L	A	0.00205	0.00267	0.00468
	A	0.00000	0.00001	0.00003
	A	-0.00002	-0.00002	0.00000
	A	0.00124	0.00185	0.00386
	B	0.00206	0.00264	0.00460
	B	0.00000	0.00000	0.00001
	B	0.00000	0.00001	0.00001
	B	0.00086	0.00144	0.00340

Internal switching power(pJ) to S rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7L	A	B	0.00207	0.00267	0.00468
	A	B	0.00001	0.00001	0.00001
	A	B	-0.00002	-0.00002	-0.00001
	A	B	0.00125	0.00185	0.00386
	A	!B	0.00154	0.00229	0.00495
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00001	-0.00001	0.00003
	A	!B	0.00354	0.00429	0.00697
	B	A	0.00206	0.00265	0.00461
	B	A	0.00000	0.00000	0.00001
	B	A	0.00000	0.00001	0.00001
	B	A	0.00086	0.00145	0.00340
	B	!A	0.00035	0.00121	0.00428
	B	!A	0.00005	0.00007	0.00008
	B	!A	-0.00006	-0.00006	0.00003
	B	!A	0.00305	0.00399	0.00706

Internal switching power(pJ) to S falling (conditional):

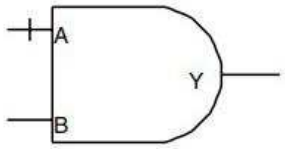
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7L	A	B	0.00132	0.00185	0.00368
	A	B	-0.00001	-0.00001	-0.00001
	A	B	0.00001	0.00002	0.00003
	A	B	0.00213	0.00266	0.00449
	A	!B	0.00343	0.00426	0.00726
	A	!B	-0.00005	-0.00005	-0.00003
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00136	0.00220	0.00520
	B	A	0.00108	0.00158	0.00328
	B	A	-0.00000	-0.00000	0.00001
	B	A	-0.00001	-0.00001	0.00001
	B	A	0.00227	0.00278	0.00448
	B	!A	0.00284	0.00383	0.00720
	B	!A	-0.00007	-0.00006	0.00003
	B	!A	0.00004	0.00006	0.00006
	B	!A	0.00006	0.00106	0.00443

AND2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X0P5H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P5H7L	0.00079	0.00073	0.04524

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P5H7L	0.00000	0.99919	1.53509

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7L	A->Y (RR)	0.03725	0.16384	0.48097
	B->Y (RR)	0.03509	0.16275	0.48106

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7L	A->Y (FF)	0.03140	0.13607	0.39275
	B->Y (FF)	0.02884	0.13148	0.38756

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7L	A	0.00033	0.00055	0.00127
	A	0.00001	0.00002	0.00002
	A	-0.00003	-0.00003	-0.00003
	A	0.00110	0.00131	0.00204
	B	0.00035	0.00061	0.00151
	B	0.00001	0.00002	0.00002
	B	-0.00000	0.00000	0.00000
	B	0.00098	0.00124	0.00214

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7L	A	0.00118	0.00144	0.00238
	A	-0.00002	-0.00002	-0.00001
	A	0.00003	0.00003	0.00003
	A	0.00041	0.00068	0.00161
	B	0.00104	0.00133	0.00236
	B	-0.00002	-0.00002	-0.00001
	B	-0.00000	-0.00000	0.00000
	B	0.00041	0.00070	0.00173

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7L	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7L	(!B * !Y)	0.00020	0.00020	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00016	-0.00016	-0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7L	(!A * !Y)	-0.00020	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

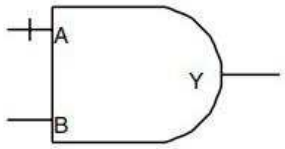
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7L	(!A * !Y)	0.00020	0.00020	0.00020
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X0P7H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P7H7L	0.00078	0.00073	0.05145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P7H7L	0.00000	1.02597	1.60688

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7L	A->Y (RR)	0.03662	0.16396	0.48255
	B->Y (RR)	0.03448	0.16299	0.48296

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7L	A->Y (FF)	0.03092	0.13561	0.39177
	B->Y (FF)	0.02840	0.13104	0.38626

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7L	A	0.00036	0.00057	0.00132
	A	0.00001	0.00001	0.00001
	A	-0.00003	-0.00003	-0.00002
	A	0.00112	0.00134	0.00208
	B	0.00038	0.00064	0.00157
	B	0.00001	0.00001	0.00002
	B	0.00000	0.00000	0.00001
	B	0.00100	0.00126	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7L	A	0.00120	0.00146	0.00243
	A	-0.00001	-0.00001	0.00001
	A	0.00003	0.00003	0.00003
	A	0.00044	0.00071	0.00167
	B	0.00106	0.00135	0.00240
	B	-0.00001	-0.00001	-0.00001
	B	-0.00000	-0.00000	0.00000
	B	0.00044	0.00073	0.00178

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7L	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7L	(!B * !Y)	0.00020	0.00020	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7L	(!A * !Y)	-0.00020	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00001
	(!A * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

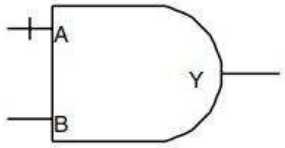
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7L	(!A * !Y)	0.00019	0.00020	0.00020
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00001	-0.00002	-0.00001
	(!A * !Y)	-0.00009	-0.00009	-0.00008

AND2X12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X12H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X12H7L	0.00263	0.00305	0.50932

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X12H7L	0.00000	6.85046	12.36670

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7L	A->Y (RR)	0.03028	0.16085	0.47986
	B->Y (RR)	0.02877	0.15949	0.47660

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7L	A->Y (FF)	0.03011	0.14376	0.41494
	B->Y (FF)	0.02786	0.13911	0.40927

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7L	A	0.00345	0.00449	0.00927
	A	-0.00003	-0.00002	-0.00001
	A	-0.00010	-0.00010	-0.00009
	A	0.00640	0.00744	0.01222
	B	0.00343	0.00476	0.01096
	B	-0.00003	-0.00002	-0.00001
	B	0.00007	0.00008	0.00009
	B	0.00570	0.00708	0.01325

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7L	A	0.00682	0.00823	0.01487
	A	0.00002	0.00002	0.00003
	A	0.00009	0.00010	0.00010
	A	0.00392	0.00530	0.01197
	B	0.00613	0.00764	0.01471
	B	0.00001	0.00002	0.00003
	B	-0.00009	-0.00008	-0.00007
	B	0.00382	0.00531	0.01243

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7L	(!B * !Y)	-0.00055	-0.00055	-0.00054
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00082	0.00083	0.00083

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7L	(!B * !Y)	0.00057	0.00061	0.00066
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00076	-0.00072	-0.00067

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7L	(!A * !Y)	-0.00091	-0.00091	-0.00089
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00007	0.00008	0.00008
	(!A * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

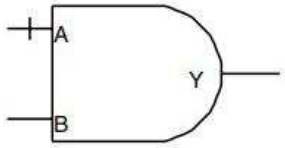
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7L	(!A * !Y)	0.00091	0.00091	0.00092
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00008	-0.00008	-0.00007
	(!A * !Y)	-0.00023	-0.00022	-0.00022

AND2X16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X16H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X16H7L	0.00359	0.00368	0.66524

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X16H7L	0.00000	8.54169	15.32450

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7L	A->Y (RR)	0.02794	0.15733	0.47471
	B->Y (RR)	0.02615	0.15630	0.47408

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7L	A->Y (FF)	0.02806	0.14086	0.41126
	B->Y (FF)	0.02553	0.13560	0.40363

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7L	A	0.00406	0.00543	0.01173
	A	-0.00003	-0.00003	-0.00002
	A	-0.00013	-0.00012	-0.00009
	A	0.00791	0.00929	0.01559
	B	0.00404	0.00583	0.01381
	B	-0.00004	-0.00003	0.00000
	B	0.00007	0.00011	0.00011
	B	0.00683	0.00862	0.01661

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7L	A	0.00835	0.01020	0.01878
	A	0.00003	0.00003	0.00003
	A	0.00012	0.00012	0.00013
	A	0.00455	0.00638	0.01498
	B	0.00736	0.00932	0.01841
	B	0.00000	0.00003	0.00004
	B	-0.00011	-0.00011	-0.00007
	B	0.00457	0.00647	0.01561

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7L	(!B * !Y)	-0.00075	-0.00074	-0.00073
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00002
	(!B * !Y)	0.00113	0.00114	0.00115

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7L	(!B * !Y)	0.00077	0.00083	0.00091
	(!B * !Y)	0.00001	0.00001	0.00002
	(!B * !Y)	-0.00002	-0.00001	0.00002
	(!B * !Y)	-0.00105	-0.00101	-0.00096

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7L	(!A * !Y)	-0.00113	-0.00112	-0.00111
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00009	0.00009	0.00010
	(!A * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

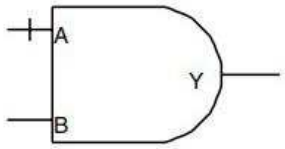
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7L	(!A * !Y)	0.00112	0.00113	0.00114
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00009	-0.00009	-0.00009
	(!A * !Y)	-0.00026	-0.00025	-0.00025

AND2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X1H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1H7L	0.00077	0.00069	0.06122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1H7L	0.00000	1.07173	1.72726

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7L	A->Y (RR)	0.03326	0.16027	0.48004
	B->Y (RR)	0.03113	0.15914	0.47977

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7L	A->Y (FF)	0.02845	0.13332	0.39101
	B->Y (FF)	0.02594	0.12863	0.38545

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7L	A	0.00033	0.00054	0.00133
	A	0.00001	0.00001	0.00001
	A	-0.00003	-0.00003	-0.00003
	A	0.00108	0.00129	0.00208
	B	0.00034	0.00061	0.00159
	B	0.00001	0.00001	0.00001
	B	0.00000	0.00001	0.00001
	B	0.00093	0.00120	0.00218

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7L	A	0.00111	0.00138	0.00240
	A	-0.00001	-0.00001	0.00001
	A	0.00003	0.00003	0.00003
	A	0.00037	0.00064	0.00165
	B	0.00098	0.00127	0.00238
	B	-0.00001	-0.00001	-0.00001
	B	-0.00001	-0.00001	-0.00000
	B	0.00039	0.00068	0.00179

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7L	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7L	(!B * !Y)	0.00019	0.00020	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7L	(!A * !Y)	-0.00019	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

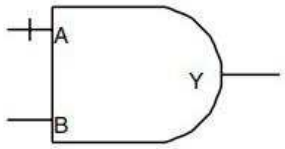
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7L	(!A * !Y)	0.00019	0.00019	0.00019
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00001	-0.00002	-0.00001
	(!A * !Y)	-0.00006	-0.00006	-0.00006

AND2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X1P4H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1P4H7L	0.00078	0.00072	0.06968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1P4H7L	0.00000	1.12256	1.86190

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7L	A->Y (RR)	0.03571	0.16449	0.48482
	B->Y (RR)	0.03352	0.16362	0.48552

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7L	A->Y (FF)	0.03046	0.13672	0.39554
	B->Y (FF)	0.02795	0.13222	0.39029

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7L	A	0.00044	0.00065	0.00146
	A	0.00000	0.00001	0.00001
	A	-0.00002	-0.00002	-0.00002
	A	0.00119	0.00140	0.00220
	B	0.00045	0.00072	0.00173
	B	0.00000	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00106	0.00133	0.00234

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7L	A	0.00126	0.00153	0.00259
	A	-0.00001	-0.00001	-0.00000
	A	0.00002	0.00002	0.00002
	A	0.00051	0.00078	0.00184
	B	0.00112	0.00142	0.00256
	B	-0.00001	-0.00001	0.00000
	B	-0.00001	-0.00001	-0.00000
	B	0.00051	0.00080	0.00195

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7L	(!B * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7L	(!B * !Y)	0.00020	0.00020	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7L	(!A * !Y)	-0.00019	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

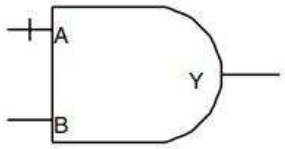
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7L	(!A * !Y)	0.00019	0.00019	0.00020
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00001	-0.00002	-0.00001
	(!A * !Y)	-0.00009	-0.00009	-0.00008

AND2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X2H7L	0.00075	0.00071	0.09016

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X2H7L	0.00000	1.43852	2.62601

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7L	A->Y (RR)	0.04004	0.17244	0.49767
	B->Y (RR)	0.03793	0.17193	0.49847

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7L	A->Y (FF)	0.03399	0.14472	0.41093
	B->Y (FF)	0.03160	0.14049	0.40555

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7L	A	0.00069	0.00091	0.00182
	A	0.00000	0.00000	0.00000
	A	-0.00002	-0.00002	-0.00002
	A	0.00141	0.00163	0.00254
	B	0.00070	0.00098	0.00215
	B	0.00000	0.00000	0.00000
	B	0.00001	0.00001	0.00002
	B	0.00129	0.00157	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7L	A	0.00154	0.00183	0.00310
	A	-0.00000	-0.00000	0.00000
	A	0.00002	0.00002	0.00002
	A	0.00083	0.00112	0.00238
	B	0.00141	0.00172	0.00305
	B	-0.00000	-0.00000	0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00082	0.00113	0.00247

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7L	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7L	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7L	(!A * !Y)	-0.00019	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

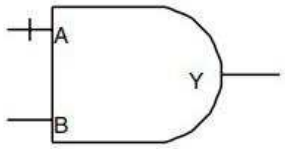
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7L	(!A * !Y)	0.00019	0.00019	0.00019
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	-0.00008	-0.00008	-0.00008

AND2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X3H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X3H7L	0.00075	0.00071	0.12753

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X3H7L	0.00000	1.62155	3.12296

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7L	A->Y (RR)	0.04124	0.17650	0.50630
	B->Y (RR)	0.03919	0.17620	0.50679

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7L	A->Y (FF)	0.03499	0.14744	0.41522
	B->Y (FF)	0.03264	0.14329	0.40922

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7L	A	0.00087	0.00110	0.00221
	A	-0.00001	-0.00001	-0.00001
	A	-0.00000	-0.00000	-0.00000
	A	0.00156	0.00179	0.00289
	B	0.00089	0.00117	0.00260
	B	-0.00001	-0.00001	-0.00001
	B	0.00003	0.00003	0.00003
	B	0.00144	0.00174	0.00316

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7L	A	0.00170	0.00201	0.00354
	A	0.00001	0.00001	0.00001
	A	0.00000	0.00000	0.00000
	A	0.00102	0.00132	0.00285
	B	0.00156	0.00189	0.00349
	B	0.00001	0.00001	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00099	0.00132	0.00293

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7L	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00001
	(!B * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7L	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7L	(!A * !Y)	-0.00019	-0.00019	-0.00019
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

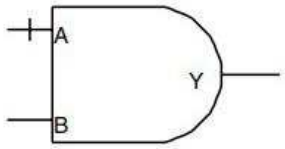
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7L	(!A * !Y)	0.00019	0.00019	0.00019
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	-0.00008	-0.00008	-0.00007

AND2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X4H7L	0.00124	0.00126	0.17333

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X4H7L	0.00000	2.52773	4.29103

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7L	A->Y (RR)	0.03408	0.16332	0.47750
	B->Y (RR)	0.03164	0.16116	0.47526

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7L	A->Y (FF)	0.03577	0.15299	0.43411
	B->Y (FF)	0.03222	0.14651	0.42502

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7L	A	0.00122	0.00157	0.00316
	A	-0.00001	-0.00001	-0.00001
	A	-0.00004	-0.00003	-0.00000
	A	0.00251	0.00286	0.00445
	B	0.00121	0.00168	0.00375
	B	-0.00001	-0.00001	-0.00000
	B	0.00002	0.00003	0.00003
	B	0.00218	0.00265	0.00471

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7L	A	0.00270	0.00318	0.00545
	A	0.00001	0.00001	0.00001
	A	0.00003	0.00003	0.00004
	A	0.00142	0.00190	0.00418
	B	0.00235	0.00286	0.00527
	B	0.00001	0.00001	0.00001
	B	-0.00003	-0.00003	-0.00002
	B	0.00135	0.00189	0.00430

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7L	(!B * !Y)	-0.00024	-0.00023	-0.00023
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00037	0.00037	0.00038

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7L	(!B * !Y)	0.00025	0.00026	0.00029
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	-0.00035	-0.00033	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7L	(!A * !Y)	-0.00036	-0.00036	-0.00035
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	0.00011	0.00011	0.00012

Passive power(pJ) for B falling (conditional):

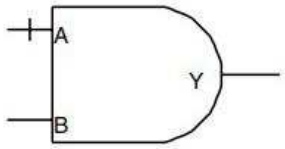
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7L	(!A * !Y)	0.00036	0.00036	0.00036
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !Y)	-0.00011	-0.00011	-0.00011

AND2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X6H7L	0.00155	0.00138	0.25471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X6H7L	0.00000	3.24311	6.24593

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7L	A->Y (RR)	0.03825	0.17350	0.50257
	B->Y (RR)	0.03648	0.17343	0.50398

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7L	A->Y (FF)	0.03254	0.14491	0.41207
	B->Y (FF)	0.03050	0.14092	0.40616

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7L	A	0.00169	0.00216	0.00449
	A	-0.00003	-0.00002	0.00000
	A	-0.00001	-0.00001	-0.00001
	A	0.00308	0.00355	0.00587
	B	0.00171	0.00230	0.00526
	B	-0.00003	-0.00002	0.00000
	B	0.00001	0.00005	0.00009
	B	0.00273	0.00334	0.00628

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7L	A	0.00326	0.00389	0.00704
	A	0.00000	0.00002	0.00003
	A	0.00001	0.00001	0.00001
	A	0.00187	0.00250	0.00566
	B	0.00301	0.00367	0.00696
	B	0.00000	0.00002	0.00003
	B	-0.00006	-0.00005	-0.00001
	B	0.00193	0.00262	0.00593

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7L	(!B * !Y)	-0.00035	-0.00035	-0.00035
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	0.00039	0.00039	0.00040

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7L	(!B * !Y)	0.00036	0.00037	0.00038
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00000	-0.00000	0.00000
	(!B * !Y)	-0.00037	-0.00035	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7L	(!A * !Y)	-0.00039	-0.00038	-0.00038
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	0.00009	0.00010	0.00011

Passive power(pJ) for B falling (conditional):

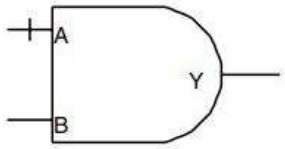
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7L	(!A * !Y)	0.00038	0.00038	0.00039
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND2 cell provides the logical AND of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
AND2X8H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X8H7L	0.00207	0.00208	0.33808

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X8H7L	0.00000	4.69699	8.09007

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7L	A->Y (RR)	0.03020	0.15931	0.47482
	B->Y (RR)	0.02820	0.15753	0.47212

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7L	A->Y (FF)	0.03100	0.14517	0.41886
	B->Y (FF)	0.02801	0.13973	0.41220

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7L	A	0.00221	0.00292	0.00611
	A	-0.00002	-0.00002	0.00000
	A	-0.00007	-0.00007	-0.00004
	A	0.00442	0.00514	0.00832
	B	0.00220	0.00313	0.00722
	B	-0.00002	-0.00002	0.00000
	B	0.00004	0.00006	0.00006
	B	0.00380	0.00474	0.00882

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7L	A	0.00464	0.00559	0.01001
	A	0.00000	0.00002	0.00002
	A	0.00007	0.00007	0.00007
	A	0.00246	0.00339	0.00783
	B	0.00407	0.00509	0.00982
	B	0.00000	0.00002	0.00002
	B	-0.00006	-0.00005	-0.00004
	B	0.00239	0.00346	0.00822

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7L	(!B * !Y)	-0.00041	-0.00041	-0.00041
	(!B * !Y)	-0.00001	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00065	0.00066	0.00066

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7L	(!B * !Y)	0.00043	0.00046	0.00050
	(!B * !Y)	0.00000	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !Y)	-0.00061	-0.00057	-0.00051

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7L	(!A * !Y)	-0.00062	-0.00061	-0.00060
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00005	0.00005	0.00005
	(!A * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

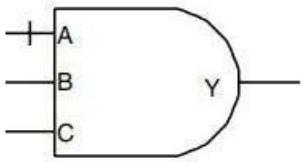
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7L	(!A * !Y)	0.00061	0.00062	0.00062
	(!A * !Y)	0.00000	0.00001	0.00001
	(!A * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !Y)	-0.00016	-0.00016	-0.00016

AND3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P5H7L	0.00073	0.00067	0.00074	0.04521

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P5H7L	0.00000	0.71979	1.71824

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7L	A->Y (RR)	0.04914	0.17567	0.49296
	B->Y (RR)	0.04691	0.17757	0.50110
	C->Y (RR)	0.04542	0.17597	0.49914

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7L	A->Y (FF)	0.03881	0.14916	0.41707
	B->Y (FF)	0.03599	0.14416	0.40756
	C->Y (FF)	0.03432	0.14018	0.40233

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7L	A	0.00038	0.00054	0.00114
	A	0.00002	0.00002	0.00002
	A	-0.00006	-0.00006	-0.00006
	A	0.00130	0.00147	0.00207
	B	0.00039	0.00056	0.00119
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00114	0.00131	0.00194
	C	0.00039	0.00060	0.00138
	C	0.00002	0.00002	0.00002
	C	-0.00000	0.00000	0.00000
	C	0.00105	0.00126	0.00204

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7L	A	0.00130	0.00153	0.00237
	A	-0.00002	-0.00002	-0.00000
	A	0.00006	0.00006	0.00006
	A	0.00040	0.00062	0.00146
	B	0.00117	0.00140	0.00223
	B	-0.00002	-0.00002	-0.00000
	B	0.00003	0.00003	0.00003
	B	0.00044	0.00066	0.00149
	C	0.00109	0.00133	0.00223
	C	-0.00002	-0.00002	-0.00002
	C	-0.00000	0.00000	0.00001
	C	0.00043	0.00066	0.00156

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	0.00019	0.00019	0.00019
	(!B * C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00019	0.00019	0.00019
	(!B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(B * !C * !Y)	0.00015	0.00015	0.00016
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00000	-0.00000
	(B * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!B * C * !Y)	0.00015	0.00015	0.00016
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00018	-0.00018	-0.00017
	(!B * !C * !Y)	0.00015	0.00015	0.00015
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(A * !C * !Y)	-0.00012	-0.00012	-0.00011
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00017	0.00018	0.00018
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	0.00007	0.00007	0.00007
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00016	-0.00016	-0.00015
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(!B * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

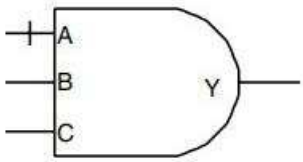
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7L	(!B * !Y)	0.00020	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00020	0.00020	0.00020
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P7H7L	0.00075	0.00066	0.00076	0.05126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P7H7L	0.00000	0.73907	1.79003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7L	A->Y (RR)	0.05121	0.17907	0.49844
	B->Y (RR)	0.04864	0.18099	0.50709
	C->Y (RR)	0.04731	0.17955	0.50509

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7L	A->Y (FF)	0.04022	0.15146	0.42045
	B->Y (FF)	0.03719	0.14642	0.41123
	C->Y (FF)	0.03564	0.14253	0.40549

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7L	A	0.00041	0.00057	0.00117
	A	0.00002	0.00002	0.00002
	A	-0.00006	-0.00006	-0.00005
	A	0.00136	0.00152	0.00212
	B	0.00043	0.00059	0.00123
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00119	0.00135	0.00199
	C	0.00042	0.00062	0.00142
	C	0.00002	0.00002	0.00002
	C	0.00000	0.00000	0.00000
	C	0.00111	0.00131	0.00211

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7L	A	0.00142	0.00164	0.00250
	A	-0.00002	-0.00002	-0.00002
	A	0.00006	0.00006	0.00006
	A	0.00048	0.00070	0.00156
	B	0.00128	0.00150	0.00236
	B	-0.00002	-0.00002	-0.00002
	B	0.00003	0.00003	0.00005
	B	0.00050	0.00074	0.00160
	C	0.00119	0.00143	0.00234
	C	-0.00002	-0.00002	-0.00001
	C	-0.00000	-0.00000	0.00000
	C	0.00049	0.00073	0.00165

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00018	0.00019	0.00019
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00018	0.00019	0.00019
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(B * !C * !Y)	0.00017	0.00017	0.00017
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!B * C * !Y)	0.00016	0.00017	0.00017
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00018	-0.00017	-0.00017
	(!B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00017	0.00017	0.00017
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00016	-0.00015	-0.00014
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(!B * !Y)	-0.00021	-0.00021	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00021	-0.00021	-0.00020
	(!A * B * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

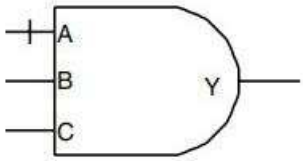
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7L	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00021	0.00021	0.00021
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1H7L	0.00072	0.00069	0.00076	0.06099

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1H7L	0.00000	0.77239	1.91042

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7L	A->Y (RR)	0.04935	0.17821	0.49925
	B->Y (RR)	0.04732	0.18054	0.50819
	C->Y (RR)	0.04596	0.17912	0.50603

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7L	A->Y (FF)	0.03904	0.15175	0.42354
	B->Y (FF)	0.03638	0.14691	0.41423
	C->Y (FF)	0.03482	0.14308	0.40871

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7L	A	0.00045	0.00061	0.00125
	A	0.00001	0.00002	0.00002
	A	-0.00006	-0.00006	-0.00005
	A	0.00137	0.00153	0.00217
	B	0.00046	0.00063	0.00131
	B	0.00001	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00121	0.00138	0.00206
	C	0.00045	0.00066	0.00150
	C	0.00001	0.00002	0.00002
	C	0.00000	0.00001	0.00001
	C	0.00112	0.00133	0.00217

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7L	A	0.00142	0.00164	0.00256
	A	-0.00002	-0.00002	-0.00001
	A	0.00006	0.00006	0.00006
	A	0.00051	0.00073	0.00165
	B	0.00129	0.00151	0.00242
	B	-0.00002	-0.00002	-0.00001
	B	0.00003	0.00003	0.00003
	B	0.00054	0.00077	0.00168
	C	0.00120	0.00144	0.00241
	C	-0.00002	-0.00002	0.00000
	C	-0.00001	-0.00001	-0.00000
	C	0.00054	0.00077	0.00174

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(B * !C * !Y)	-0.00014	-0.00014	-0.00014
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	0.00019	0.00019	0.00020
	(!B * C * !Y)	-0.00014	-0.00014	-0.00014
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * !C * !Y)	-0.00014	-0.00014	-0.00014
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(B * !C * !Y)	0.00014	0.00015	0.00015
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00000	0.00000
	(B * !C * !Y)	-0.00018	-0.00018	-0.00016
	(!B * C * !Y)	0.00014	0.00015	0.00015
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00019	-0.00018	-0.00017
	(!B * !C * !Y)	0.00014	0.00014	0.00014
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00018	0.00018	0.00018
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00007	0.00007
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!A * C * !Y)	0.00012	0.00013	0.00013
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(!B * !Y)	-0.00021	-0.00020	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00021	-0.00020	-0.00020
	(!A * B * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

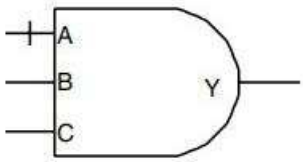
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7L	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !Y)	0.00020	0.00021	0.00021
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1P4H7L	0.00073	0.00065	0.00076	0.06956

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1P4H7L	0.00000	0.80925	2.04507

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7L	A->Y (RR)	0.05051	0.18034	0.50252
	B->Y (RR)	0.04795	0.18245	0.51173
	C->Y (RR)	0.04679	0.18127	0.50972

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7L	A->Y (FF)	0.03972	0.15301	0.42556
	B->Y (FF)	0.03673	0.14796	0.41586
	C->Y (FF)	0.03540	0.14436	0.41031

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7L	A	0.00050	0.00066	0.00133
	A	0.00001	0.00001	0.00001
	A	-0.00005	-0.00005	-0.00005
	A	0.00142	0.00159	0.00225
	B	0.00052	0.00068	0.00140
	B	0.00001	0.00001	0.00002
	B	-0.00002	-0.00002	-0.00001
	B	0.00126	0.00143	0.00214
	C	0.00051	0.00072	0.00160
	C	0.00001	0.00001	0.00002
	C	0.00001	0.00001	0.00002
	C	0.00118	0.00139	0.00228

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7L	A	0.00147	0.00171	0.00268
	A	-0.00001	-0.00001	0.00001
	A	0.00005	0.00005	0.00005
	A	0.00058	0.00080	0.00177
	B	0.00134	0.00157	0.00253
	B	-0.00001	-0.00001	-0.00001
	B	0.00002	0.00002	0.00002
	B	0.00061	0.00083	0.00180
	C	0.00126	0.00151	0.00252
	C	-0.00002	-0.00001	-0.00001
	C	-0.00001	-0.00001	0.00000
	C	0.00059	0.00083	0.00185

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00018	0.00018	0.00018
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00018	0.00018	0.00018
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00017	0.00017	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(B * !C * !Y)	0.00016	0.00016	0.00017
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00000	-0.00000	0.00000
	(B * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * C * !Y)	0.00016	0.00016	0.00017
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * !Y)	-0.00017	-0.00017	-0.00016
	(!B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00017	0.00017	0.00017
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	0.00005	0.00006	0.00006
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00016	-0.00015	-0.00015
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(!B * !Y)	-0.00021	-0.00020	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00006	0.00007	0.00007
	(!A * B * !Y)	-0.00021	-0.00020	-0.00020
	(!A * B * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

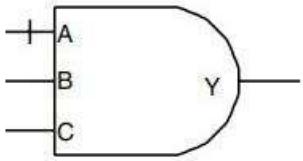
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7L	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00021	0.00021	0.00021
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X2H7L	0.00072	0.00064	0.00077	0.09014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X2H7L	0.00000	1.05925	2.80971

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7L	A->Y (RR)	0.05208	0.18370	0.50714
	B->Y (RR)	0.04969	0.18615	0.51703
	C->Y (RR)	0.04845	0.18498	0.51489

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7L	A->Y (FF)	0.04260	0.15986	0.43953
	B->Y (FF)	0.03951	0.15488	0.42995
	C->Y (FF)	0.03812	0.15124	0.42500

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7L	A	0.00073	0.00090	0.00171
	A	0.00001	0.00001	0.00001
	A	-0.00005	-0.00005	-0.00005
	A	0.00165	0.00183	0.00264
	B	0.00074	0.00093	0.00181
	B	0.00000	0.00001	0.00001
	B	-0.00002	-0.00002	-0.00002
	B	0.00147	0.00166	0.00254
	C	0.00073	0.00096	0.00207
	C	0.00000	0.00001	0.00001
	C	0.00001	0.00001	0.00002
	C	0.00140	0.00163	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7L	A	0.00171	0.00196	0.00318
	A	-0.00001	-0.00001	-0.00001
	A	0.00005	0.00005	0.00005
	A	0.00080	0.00105	0.00227
	B	0.00156	0.00182	0.00304
	B	-0.00001	-0.00001	-0.00000
	B	0.00002	0.00002	0.00002
	B	0.00083	0.00108	0.00231
	C	0.00148	0.00174	0.00300
	C	-0.00001	-0.00001	-0.00000
	C	-0.00001	-0.00001	0.00006
	C	0.00077	0.00107	0.00234

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	0.00018	0.00019	0.00019
	(!B * C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00001
	(!B * C * !Y)	0.00019	0.00019	0.00020
	(!B * !C * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !C * !Y)	-0.00000	-0.00000	0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00000	0.00000
	(B * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!B * C * !Y)	0.00015	0.00016	0.00016
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00000	-0.00000
	(!B * C * !Y)	-0.00018	-0.00018	-0.00017
	(!B * !C * !Y)	0.00015	0.00015	0.00016
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(A * !C * !Y)	-0.00011	-0.00011	-0.00011
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00001
	(A * !C * !Y)	0.00017	0.00018	0.00018
	(!A * C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00011	-0.00011	-0.00011
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00004
	(!A * !C * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00000	-0.00000
	(A * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(!B * !Y)	-0.00021	-0.00021	-0.00020
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00007	0.00007	0.00008
	(!A * B * !Y)	-0.00021	-0.00021	-0.00020
	(!A * B * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00003
	(!A * B * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

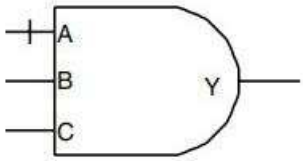
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7L	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00020	0.00021	0.00021
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00007	-0.00007	-0.00006

AND3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X3H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X3H7L	0.00076	0.00067	0.00079	0.12714

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X3H7L	0.00000	1.18627	3.34524

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7L	A->Y (RR)	0.05791	0.19433	0.52750
	B->Y (RR)	0.05534	0.19745	0.53941
	C->Y (RR)	0.05429	0.19687	0.53919

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7L	A->Y (FF)	0.03795	0.15225	0.42183
	B->Y (FF)	0.03556	0.14815	0.41396
	C->Y (FF)	0.03470	0.14531	0.40908

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7L	A	0.00089	0.00109	0.00213
	A	0.00000	0.00000	0.00001
	A	-0.00003	-0.00003	-0.00003
	A	0.00183	0.00202	0.00306
	B	0.00091	0.00112	0.00226
	B	0.00000	0.00000	0.00001
	B	-0.00000	-0.00000	-0.00000
	B	0.00165	0.00186	0.00300
	C	0.00091	0.00116	0.00258
	C	0.00000	0.00000	0.00001
	C	0.00001	0.00003	0.00006
	C	0.00157	0.00185	0.00326

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7L	A	0.00192	0.00220	0.00369
	A	-0.00000	-0.00000	-0.00000
	A	0.00003	0.00003	0.00003
	A	0.00100	0.00128	0.00278
	B	0.00178	0.00206	0.00355
	B	-0.00000	-0.00000	0.00000
	B	0.00000	0.00000	0.00000
	B	0.00104	0.00132	0.00282
	C	0.00170	0.00200	0.00353
	C	-0.00001	-0.00000	0.00000
	C	-0.00003	-0.00003	-0.00001
	C	0.00099	0.00130	0.00285

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	0.00018	0.00019	0.00019
	(!B * C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00019	0.00019	0.00019
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(B * !C * !Y)	0.00018	0.00018	0.00018
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00000	0.00000
	(B * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!B * C * !Y)	0.00017	0.00018	0.00018
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * !Y)	-0.00018	-0.00017	-0.00016
	(!B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00001
	(A * !C * !Y)	0.00016	0.00017	0.00017
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00002	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(A * !C * !Y)	0.00013	0.00014	0.00015
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00016	-0.00015	-0.00015
	(!A * C * !Y)	0.00013	0.00014	0.00014
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00002	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00013	0.00014	0.00014
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(!B * !Y)	-0.00022	-0.00022	-0.00022
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	0.00007	0.00007	0.00007
	(!A * B * !Y)	-0.00022	-0.00022	-0.00022
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C falling (conditional):

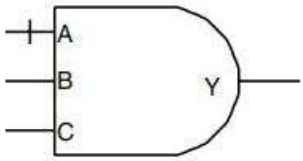
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7L	(!B * !Y)	0.00022	0.00022	0.00022
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00022	0.00022	0.00022
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	-0.00007	-0.00007	-0.00007

AND3X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X4H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X4H7L	0.00176	0.00156	0.00134	0.18023

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X4H7L	0.00000	2.08956	5.52749

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7L	A->Y (RR)	0.05434	0.18790	0.51374
	B->Y (RR)	0.05154	0.19033	0.52366
	C->Y (RR)	0.04756	0.18695	0.51937

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7L	A->Y (FF)	0.04524	0.16580	0.45162
	B->Y (FF)	0.04173	0.16055	0.44219
	C->Y (FF)	0.03839	0.15531	0.43491

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7L	A	0.00142	0.00175	0.00339
	A	0.00000	0.00001	0.00001
	A	-0.00010	-0.00010	-0.00009
	A	0.00333	0.00366	0.00530
	B	0.00146	0.00180	0.00360
	B	0.00000	0.00001	0.00002
	B	-0.00004	-0.00003	-0.00000
	B	0.00298	0.00332	0.00512
	C	0.00148	0.00191	0.00418
	C	0.00000	0.00001	0.00001
	C	0.00003	0.00003	0.00003
	C	0.00265	0.00311	0.00536

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7L	A	0.00352	0.00403	0.00651
	A	-0.00001	-0.00001	0.00005
	A	0.00009	0.00010	0.00010
	A	0.00166	0.00214	0.00463
	B	0.00325	0.00374	0.00623
	B	-0.00001	-0.00001	-0.00000
	B	0.00003	0.00003	0.00004
	B	0.00174	0.00222	0.00472
	C	0.00297	0.00348	0.00606
	C	-0.00001	-0.00001	-0.00000
	C	-0.00003	-0.00003	-0.00002
	C	0.00178	0.00229	0.00488

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(B * !C * !Y)	-0.00037	-0.00037	-0.00037
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00040	0.00041	0.00042
	(!B * C * !Y)	-0.00037	-0.00037	-0.00037
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00001	0.00002
	(!B * C * !Y)	0.00039	0.00040	0.00041
	(!B * !C * !Y)	-0.00037	-0.00037	-0.00037
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(B * !C * !Y)	0.00038	0.00038	0.00039
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	0.00000
	(B * !C * !Y)	-0.00038	-0.00037	-0.00035
	(!B * C * !Y)	0.00038	0.00038	0.00038
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00038	-0.00038	-0.00035
	(!B * !C * !Y)	0.00037	0.00037	0.00038
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00038	-0.00038	-0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(A * !C * !Y)	-0.00027	-0.00027	-0.00027
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00001	0.00002
	(A * !C * !Y)	0.00035	0.00037	0.00038
	(!A * C * !Y)	-0.00027	-0.00027	-0.00027
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00003	0.00005	0.00005
	(!A * C * !Y)	0.00015	0.00015	0.00017
	(!A * !C * !Y)	-0.00028	-0.00027	-0.00027
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00006	0.00007	0.00007
	(!A * !C * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(A * !C * !Y)	0.00028	0.00029	0.00032
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00000	-0.00000
	(A * !C * !Y)	-0.00035	-0.00034	-0.00033
	(!A * C * !Y)	0.00028	0.00028	0.00028
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00005	-0.00004	-0.00003
	(!A * C * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !Y)	0.00028	0.00028	0.00028
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !C * !Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(!B * !Y)	-0.00029	-0.00028	-0.00028
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00013	0.00013	0.00014
	(!A * B * !Y)	-0.00029	-0.00028	-0.00028
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00002	0.00003	0.00004
	(!A * B * !Y)	0.00011	0.00013	0.00013

Passive power(pJ) for C falling (conditional):

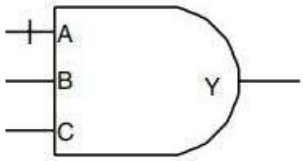
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7L	(!B * !Y)	0.00028	0.00029	0.00029
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !Y)	0.00028	0.00029	0.00029
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * !Y)	-0.00013	-0.00012	-0.00011

AND3X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X6H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X6H7L	0.00178	0.00163	0.00144	0.25445

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X6H7L	0.00000	2.37255	6.69049

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7L	A->Y (RR)	0.05674	0.19413	0.52837
	B->Y (RR)	0.05438	0.19744	0.54036
	C->Y (RR)	0.05046	0.19457	0.53837

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7L	A->Y (FF)	0.03688	0.15199	0.42251
	B->Y (FF)	0.03469	0.14800	0.41488
	C->Y (FF)	0.03229	0.14383	0.40861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7L	A	0.00170	0.00210	0.00427
	A	0.00000	0.00001	0.00001
	A	-0.00007	-0.00007	-0.00005
	A	0.00362	0.00401	0.00618
	B	0.00173	0.00215	0.00454
	B	0.00000	0.00001	0.00001
	B	-0.00001	-0.00001	-0.00001
	B	0.00328	0.00370	0.00608
	C	0.00175	0.00229	0.00524
	C	0.00000	0.00001	0.00001
	C	0.00005	0.00006	0.00006
	C	0.00296	0.00351	0.00645

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7L	A	0.00387	0.00445	0.00751
	A	-0.00001	-0.00001	-0.00000
	A	0.00007	0.00007	0.00007
	A	0.00198	0.00255	0.00563
	B	0.00360	0.00417	0.00723
	B	-0.00001	-0.00001	0.00000
	B	0.00001	0.00001	0.00005
	B	0.00206	0.00262	0.00570
	C	0.00331	0.00392	0.00711
	C	-0.00001	-0.00001	0.00000
	C	-0.00006	-0.00005	-0.00005
	C	0.00194	0.00267	0.00590

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(B * !C * !Y)	-0.00039	-0.00039	-0.00039
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00003
	(B * !C * !Y)	0.00037	0.00040	0.00041
	(!B * C * !Y)	-0.00039	-0.00039	-0.00039
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00001
	(!B * C * !Y)	0.00040	0.00040	0.00041
	(!B * !C * !Y)	-0.00039	-0.00039	-0.00038
	(!B * !C * !Y)	-0.00000	-0.00000	0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(B * !C * !Y)	0.00040	0.00040	0.00041
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00002	-0.00001	0.00000
	(B * !C * !Y)	-0.00038	-0.00037	-0.00034
	(!B * C * !Y)	0.00039	0.00040	0.00041
	(!B * C * !Y)	0.00000	0.00000	0.00001
	(!B * C * !Y)	-0.00001	-0.00000	0.00000
	(!B * C * !Y)	-0.00038	-0.00038	-0.00036
	(!B * !C * !Y)	0.00039	0.00039	0.00040
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00038	-0.00038	-0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(A * !C * !Y)	-0.00031	-0.00031	-0.00031
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00037	0.00038	0.00040
	(!A * C * !Y)	-0.00032	-0.00032	-0.00031
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00004	0.00005	0.00005
	(!A * C * !Y)	0.00015	0.00015	0.00016
	(!A * !C * !Y)	-0.00032	-0.00032	-0.00032
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00007	0.00007	0.00007
	(!A * !C * !Y)	0.00014	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(A * !C * !Y)	0.00032	0.00034	0.00035
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00035	-0.00034	-0.00031
	(!A * C * !Y)	0.00032	0.00032	0.00033
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00005	-0.00005	-0.00004
	(!A * C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !Y)	0.00032	0.00032	0.00032
	(!A * !C * !Y)	0.00000	0.00000	0.00001
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !C * !Y)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(!B * !Y)	-0.00034	-0.00033	-0.00033
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00003	0.00004
	(!B * !Y)	0.00012	0.00013	0.00014
	(!A * B * !Y)	-0.00034	-0.00033	-0.00033
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00002	0.00003	0.00003
	(!A * B * !Y)	0.00013	0.00013	0.00014

Passive power(pJ) for C falling (conditional):

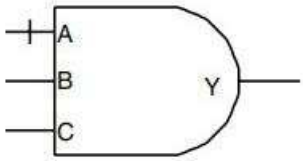
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7L	(!B * !Y)	0.00033	0.00033	0.00034
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !Y)	0.00033	0.00033	0.00034
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * !Y)	-0.00013	-0.00013	-0.00012

AND3X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND3 cell provides the logical AND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
AND3X8H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X8H7L	0.00213	0.00191	0.00175	0.33687

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X8H7L	0.00000	3.21089	8.52663

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7L	A->Y (RR)	0.04186	0.17309	0.49317
	B->Y (RR)	0.04003	0.17538	0.50140
	C->Y (RR)	0.03685	0.17228	0.49650

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7L	A->Y (FF)	0.03597	0.15337	0.43132
	B->Y (FF)	0.03340	0.14871	0.42239
	C->Y (FF)	0.03065	0.14386	0.41616

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7L	A	0.00226	0.00282	0.00564
	A	0.00000	0.00002	0.00002
	A	-0.00018	-0.00017	-0.00012
	A	0.00489	0.00545	0.00828
	B	0.00228	0.00289	0.00596
	B	0.00000	0.00002	0.00003
	B	-0.00007	-0.00006	-0.00005
	B	0.00436	0.00495	0.00802
	C	0.00229	0.00306	0.00691
	C	0.00001	0.00002	0.00002
	C	0.00003	0.00006	0.00007
	C	0.00384	0.00463	0.00846

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7L	A	0.00506	0.00589	0.01006
	A	-0.00002	-0.00002	-0.00000
	A	0.00017	0.00017	0.00018
	A	0.00246	0.00329	0.00748
	B	0.00453	0.00545	0.00964
	B	-0.00002	-0.00001	0.00010
	B	0.00005	0.00006	0.00012
	B	0.00251	0.00339	0.00760
	C	0.00416	0.00505	0.00944
	C	-0.00002	-0.00001	0.00004
	C	-0.00006	-0.00006	-0.00003
	C	0.00255	0.00348	0.00790

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(B * !C * !Y)	-0.00046	-0.00046	-0.00046
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00001	0.00001	0.00003
	(B * !C * !Y)	0.00052	0.00053	0.00054
	(!B * C * !Y)	-0.00046	-0.00046	-0.00046
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00054	0.00055	0.00055
	(!B * !C * !Y)	-0.00047	-0.00046	-0.00046
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00002	0.00002
	(!B * !C * !Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(B * !C * !Y)	0.00047	0.00048	0.00049
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	-0.00003	-0.00001	-0.00001
	(B * !C * !Y)	-0.00050	-0.00048	-0.00044
	(!B * C * !Y)	0.00047	0.00047	0.00048
	(!B * C * !Y)	0.00000	0.00000	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	0.00000
	(!B * C * !Y)	-0.00051	-0.00049	-0.00046
	(!B * !C * !Y)	0.00046	0.00047	0.00047
	(!B * !C * !Y)	0.00000	0.00001	0.00001
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * !Y)	-0.00051	-0.00050	-0.00048

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(A * !C * !Y)	-0.00037	-0.00037	-0.00037
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00050	0.00050	0.00051
	(!A * C * !Y)	-0.00037	-0.00037	-0.00037
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00007	0.00009	0.00009
	(!A * C * !Y)	0.00012	0.00012	0.00013
	(!A * !C * !Y)	-0.00037	-0.00037	-0.00037
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00011	0.00012	0.00012
	(!A * !C * !Y)	0.00012	0.00012	0.00013

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(A * !C * !Y)	0.00038	0.00040	0.00044
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00046	-0.00044	-0.00042
	(!A * C * !Y)	0.00038	0.00039	0.00039
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	0.00038	0.00038	0.00039
	(!A * !C * !Y)	0.00000	0.00000	0.00001
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(!B * !Y)	-0.00047	-0.00046	-0.00046
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00004	0.00005	0.00005
	(!B * !Y)	0.00010	0.00010	0.00011
	(!A * B * !Y)	-0.00047	-0.00047	-0.00046
	(!A * B * !Y)	-0.00001	-0.00000	-0.00000
	(!A * B * !Y)	0.00004	0.00005	0.00005
	(!A * B * !Y)	0.00009	0.00010	0.00011

Passive power(pJ) for C falling (conditional):

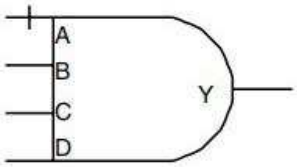
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7L	(!B * !Y)	0.00046	0.00047	0.00047
	(!B * !Y)	0.00000	0.00001	0.00001
	(!B * !Y)	-0.00005	-0.00005	-0.00004
	(!B * !Y)	-0.00010	-0.00010	-0.00009
	(!A * B * !Y)	0.00046	0.00047	0.00047
	(!A * B * !Y)	0.00000	0.00001	0.00001
	(!A * B * !Y)	-0.00005	-0.00005	-0.00004
	(!A * B * !Y)	-0.00010	-0.00009	-0.00009

AND4X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P5H7L	0.00074	0.00067	0.00065	0.00078	0.04511

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P5H7L	0.00000	0.52985	1.92742

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7L	A->Y (RR)	0.06740	0.19590	0.51717
	B->Y (RR)	0.06531	0.19823	0.52758
	C->Y (RR)	0.06186	0.19864	0.53429
	D->Y (RR)	0.05985	0.19616	0.53056

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7L	A->Y (FF)	0.04423	0.15768	0.43039
	B->Y (FF)	0.04198	0.15355	0.42195
	C->Y (FF)	0.03940	0.14885	0.41301
	D->Y (FF)	0.03799	0.14530	0.40794

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7L	A	0.00039	0.00052	0.00104
	A	0.00003	0.00003	0.00004
	A	-0.00009	-0.00009	-0.00009
	A	0.00157	0.00169	0.00222
	B	0.00040	0.00053	0.00107
	B	0.00003	0.00003	0.00004
	B	-0.00006	-0.00006	-0.00006
	B	0.00138	0.00151	0.00206
	C	0.00041	0.00055	0.00112
	C	0.00003	0.00003	0.00004
	C	-0.00003	-0.00003	-0.00002
	C	0.00125	0.00139	0.00197
	D	0.00040	0.00057	0.00129
	D	0.00003	0.00003	0.00004
	D	0.00000	0.00000	0.00000
	D	0.00118	0.00136	0.00207

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7L	A	0.00160	0.00180	0.00258
	A	-0.00003	-0.00003	-0.00003
	A	0.00009	0.00009	0.00009
	A	0.00045	0.00064	0.00143
	B	0.00148	0.00167	0.00245
	B	-0.00003	-0.00003	-0.00003
	B	0.00006	0.00006	0.00006
	B	0.00050	0.00070	0.00148
	C	0.00135	0.00154	0.00232
	C	-0.00003	-0.00003	-0.00003
	C	0.00002	0.00003	0.00003
	C	0.00051	0.00070	0.00148
	D	0.00127	0.00148	0.00231
	D	-0.00003	-0.00003	-0.00003
	D	-0.00000	0.00000	0.00000
	D	0.00049	0.00070	0.00153

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00001
	(B * C * !D * !Y)	0.00021	0.00021	0.00022
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00001
	(B * !C * D * !Y)	0.00021	0.00021	0.00021
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(B * !C * !D * !Y)	0.00020	0.00021	0.00021
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	0.00022	0.00022	0.00022
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00000	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00021	0.00021
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00000	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(B * C * !D * !Y)	0.00015	0.00016	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00000	-0.00000
	(B * C * !D * !Y)	-0.00020	-0.00020	-0.00019
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00000	0.00000
	(B * !C * D * !Y)	-0.00021	-0.00020	-0.00019
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * !Y)	-0.00021	-0.00020	-0.00020
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	0.00017	0.00017	0.00018
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	0.00017	0.00017	0.00017
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00002	0.00002
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * !Y)	-0.00000	0.00002	0.00014
	(!A * !C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !D * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(A * C * !D * !Y)	0.00013	0.00014	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * !Y)	-0.00016	-0.00015	-0.00013
	(A * !C * D * !Y)	0.00013	0.00014	0.00014
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * !Y)	-0.00016	-0.00016	-0.00015
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * C * D * !Y)	0.00013	0.00013	0.00013
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(A * B * !D * !Y)	-0.00012	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	0.00018	0.00018	0.00018
	(!B * D * !Y)	-0.00012	-0.00012	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00002	0.00002
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00012	-0.00012	-0.00012
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00003	0.00003	0.00003
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00002	0.00003
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00003	0.00003	0.00003
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(A * B * !D * !Y)	0.00012	0.00013	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	-0.00017	-0.00016	-0.00015
	(!B * D * !Y)	0.00012	0.00012	0.00012
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00013	0.00013
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(!C * !Y)	-0.00021	-0.00020	-0.00020
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00001	0.00002
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00002	0.00002
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

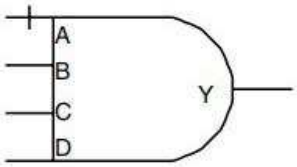
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7L	(!C * !Y)	0.00020	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00020	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00020	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	-0.00008	-0.00007	-0.00007

AND4X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P7H7L	0.00075	0.00068	0.00065	0.00077	0.05126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P7H7L	0.00000	0.54538	1.99922

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7L	A->Y (RR)	0.06725	0.19666	0.51894
	B->Y (RR)	0.06518	0.19908	0.53004
	C->Y (RR)	0.06152	0.19945	0.53673
	D->Y (RR)	0.05951	0.19694	0.53310

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7L	A->Y (FF)	0.04390	0.15750	0.42991
	B->Y (FF)	0.04167	0.15340	0.42153
	C->Y (FF)	0.03899	0.14865	0.41242
	D->Y (FF)	0.03760	0.14511	0.40723

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7L	A	0.00041	0.00054	0.00108
	A	0.00003	0.00003	0.00003
	A	-0.00009	-0.00009	-0.00009
	A	0.00160	0.00173	0.00227
	B	0.00042	0.00055	0.00112
	B	0.00003	0.00003	0.00003
	B	-0.00006	-0.00006	-0.00006
	B	0.00142	0.00155	0.00211
	C	0.00043	0.00057	0.00117
	C	0.00003	0.00003	0.00003
	C	-0.00003	-0.00003	0.00000
	C	0.00128	0.00142	0.00202
	D	0.00042	0.00060	0.00134
	D	0.00003	0.00003	0.00004
	D	0.00000	0.00000	0.00001
	D	0.00121	0.00139	0.00213

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7L	A	0.00163	0.00183	0.00265
	A	-0.00003	-0.00003	-0.00003
	A	0.00009	0.00009	0.00009
	A	0.00047	0.00066	0.00149
	B	0.00151	0.00171	0.00252
	B	-0.00003	-0.00003	-0.00003
	B	0.00006	0.00006	0.00006
	B	0.00053	0.00072	0.00153
	C	0.00137	0.00158	0.00239
	C	-0.00003	-0.00003	-0.00001
	C	0.00000	0.00003	0.00003
	C	0.00053	0.00073	0.00154
	D	0.00130	0.00151	0.00237
	D	-0.00003	-0.00003	-0.00002
	D	-0.00000	-0.00000	0.00000
	D	0.00051	0.00072	0.00158

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	0.00022	0.00022	0.00022
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	0.00021	0.00022	0.00022
	(B * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(B * !C * !D * !Y)	0.00020	0.00021	0.00021
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	0.00022	0.00022	0.00023
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00000	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00021	0.00021
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * !C * D * !Y)	0.00000	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(B * C * !D * !Y)	-0.00021	-0.00020	-0.00018
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(B * !C * D * !Y)	-0.00021	-0.00020	-0.00019
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * !Y)	-0.00021	-0.00020	-0.00020
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00001
	(A * C * !D * !Y)	0.00016	0.00017	0.00017
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	0.00017	0.00017	0.00018
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00002	0.00002
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00003	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * !Y)	-0.00000	0.00002	0.00015
	(!A * !C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !D * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(A * C * !D * !Y)	0.00014	0.00014	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !D * !Y)	-0.00016	-0.00015	-0.00013
	(A * !C * D * !Y)	0.00014	0.00014	0.00015
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * !Y)	-0.00016	-0.00016	-0.00015
	(A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * C * D * !Y)	0.00014	0.00014	0.00014
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(A * B * !D * !Y)	-0.00012	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	0.00018	0.00018	0.00018
	(!B * D * !Y)	-0.00012	-0.00012	-0.00012
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00003	0.00003	0.00003
	(!B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00001	0.00002	0.00002
	(!A * B * D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00003	0.00003	0.00003
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(A * B * !D * !Y)	0.00012	0.00013	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	-0.00017	-0.00016	-0.00015
	(!B * D * !Y)	0.00012	0.00012	0.00012
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00013	0.00013
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(!C * !Y)	-0.00021	-0.00020	-0.00020
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00006	0.00007	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00002	0.00002
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

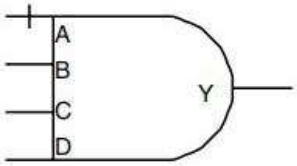
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7L	(!C * !Y)	0.00020	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00020	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00002	-0.00001
	(!B * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * !Y)	0.00020	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1H7L	0.00075	0.00067	0.00065	0.00077	0.06102

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1H7L	0.00000	0.57248	2.11962

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7L	A->Y (RR)	0.06645	0.19711	0.52109
	B->Y (RR)	0.06426	0.19948	0.53220
	C->Y (RR)	0.06076	0.20001	0.53907
	D->Y (RR)	0.05875	0.19755	0.53560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7L	A->Y (FF)	0.04339	0.15865	0.43420
	B->Y (FF)	0.04106	0.15444	0.42606
	C->Y (FF)	0.03847	0.14980	0.41698
	D->Y (FF)	0.03712	0.14628	0.41169

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7L	A	0.00045	0.00058	0.00115
	A	0.00003	0.00003	0.00003
	A	-0.00009	-0.00009	-0.00009
	A	0.00163	0.00176	0.00233
	B	0.00047	0.00060	0.00120
	B	0.00003	0.00003	0.00003
	B	-0.00006	-0.00006	-0.00006
	B	0.00144	0.00157	0.00217
	C	0.00047	0.00061	0.00126
	C	0.00002	0.00003	0.00003
	C	-0.00003	-0.00003	-0.00002
	C	0.00130	0.00145	0.00209
	D	0.00046	0.00064	0.00144
	D	0.00003	0.00003	0.00003
	D	0.00000	0.00001	0.00002
	D	0.00123	0.00141	0.00220

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7L	A	0.00167	0.00187	0.00274
	A	-0.00003	-0.00003	-0.00001
	A	0.00009	0.00009	0.00009
	A	0.00052	0.00071	0.00159
	B	0.00154	0.00174	0.00260
	B	-0.00003	-0.00003	-0.00003
	B	0.00006	0.00006	0.00006
	B	0.00058	0.00078	0.00164
	C	0.00140	0.00161	0.00247
	C	-0.00003	-0.00003	-0.00002
	C	0.00003	0.00003	0.00003
	C	0.00058	0.00078	0.00164
	D	0.00132	0.00154	0.00245
	D	-0.00003	-0.00003	-0.00003
	D	-0.00001	-0.00001	-0.00000
	D	0.00056	0.00077	0.00169

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00001
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	0.00022	0.00022	0.00023
	(B * !C * !D * !Y)	-0.00016	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(B * !C * !D * !Y)	0.00021	0.00021	0.00022
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	0.00022	0.00023	0.00023
	(!B * !D * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00000	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00022	0.00022
	(!B * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * !C * D * !Y)	0.00000	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00000	0.00000
	(B * C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(B * !C * D * !Y)	-0.00021	-0.00021	-0.00019
	(B * !C * !D * !Y)	0.00015	0.00015	0.00016
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * !Y)	-0.00021	-0.00021	-0.00020
	(!B * C * D * !Y)	0.00015	0.00015	0.00016
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	-0.00022	-0.00021	-0.00020
	(!B * !D * !Y)	0.00015	0.00015	0.00016
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * !Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * D * !Y)	0.00015	0.00015	0.00016
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	0.00017	0.00017	0.00018
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	0.00017	0.00017	0.00017
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00002	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * !Y)	-0.00000	0.00002	0.00014
	(!A * !C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !D * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(A * C * !D * !Y)	0.00013	0.00014	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * !Y)	-0.00016	-0.00015	-0.00013
	(A * !C * D * !Y)	0.00013	0.00014	0.00015
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00016	-0.00015	-0.00015
	(!A * C * D * !Y)	0.00013	0.00014	0.00014
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00014	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(A * B * !D * !Y)	-0.00012	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	0.00018	0.00018	0.00018
	(!B * D * !Y)	-0.00012	-0.00012	-0.00012
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00003	0.00003	0.00003
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00001	0.00002	0.00002
	(!A * B * D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00003	0.00003	0.00003
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(A * B * !D * !Y)	0.00012	0.00013	0.00014
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	-0.00017	-0.00016	-0.00015
	(!B * D * !Y)	0.00012	0.00012	0.00012
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00013	0.00013
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(!C * !Y)	-0.00021	-0.00020	-0.00020
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00006	0.00007	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00020	-0.00020
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00002	0.00002
	(!A * B * C * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

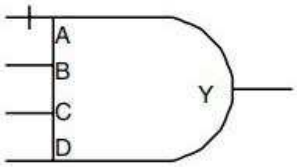
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7L	(!C * !Y)	0.00020	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00020	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00002	-0.00001
	(!B * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * !Y)	0.00020	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00006

AND4X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1P4H7L	0.00074	0.00068	0.00065	0.00078	0.06954

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1P4H7L	0.00000	0.60828	2.25492

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7L	A->Y (RR)	0.06314	0.19369	0.51643
	B->Y (RR)	0.06144	0.19637	0.52738
	C->Y (RR)	0.05795	0.19676	0.53385
	D->Y (RR)	0.05586	0.19420	0.53019

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7L	A->Y (FF)	0.04303	0.15891	0.43556
	B->Y (FF)	0.04090	0.15483	0.42703
	C->Y (FF)	0.03814	0.15000	0.41798
	D->Y (FF)	0.03670	0.14636	0.41273

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7L	A	0.00048	0.00062	0.00123
	A	0.00002	0.00003	0.00003
	A	-0.00009	-0.00009	-0.00009
	A	0.00167	0.00180	0.00242
	B	0.00049	0.00063	0.00128
	B	0.00002	0.00003	0.00003
	B	-0.00006	-0.00006	-0.00005
	B	0.00148	0.00161	0.00227
	C	0.00050	0.00065	0.00135
	C	0.00002	0.00003	0.00003
	C	-0.00003	-0.00003	-0.00003
	C	0.00133	0.00148	0.00218
	D	0.00050	0.00068	0.00154
	D	0.00002	0.00003	0.00003
	D	0.00000	0.00001	0.00001
	D	0.00125	0.00145	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7L	A	0.00170	0.00191	0.00285
	A	-0.00003	-0.00003	-0.00002
	A	0.00009	0.00009	0.00009
	A	0.00054	0.00075	0.00169
	B	0.00156	0.00178	0.00271
	B	-0.00003	-0.00003	0.00000
	B	0.00006	0.00006	0.00006
	B	0.00060	0.00081	0.00174
	C	0.00143	0.00164	0.00257
	C	-0.00003	-0.00003	-0.00001
	C	0.00003	0.00003	0.00003
	C	0.00060	0.00081	0.00175
	D	0.00135	0.00157	0.00255
	D	-0.00003	-0.00003	-0.00002
	D	-0.00001	-0.00001	-0.00000
	D	0.00058	0.00081	0.00179

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00001
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00001
	(B * !C * D * !Y)	0.00022	0.00022	0.00023
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00021	0.00021	0.00022
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00001
	(!B * C * D * !Y)	0.00022	0.00023	0.00023
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00000	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00022	0.00022
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * !C * D * !Y)	0.00000	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(B * C * !D * !Y)	0.00015	0.00015	0.00015
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00000	0.00000
	(B * C * !D * !Y)	-0.00022	-0.00021	-0.00019
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00000	0.00000
	(B * !C * D * !Y)	-0.00022	-0.00021	-0.00019
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00022	-0.00021	-0.00020
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	-0.00022	-0.00021	-0.00020
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00000	-0.00000
	(!B * !D * !Y)	-0.00022	-0.00021	-0.00021
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(A * C * !D * !Y)	-0.00014	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	0.00017	0.00017	0.00018
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	0.00017	0.00017	0.00018
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00017	0.00017	0.00017
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00003	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * !D * !Y)	-0.00000	0.00002	0.00015
	(!A * !C * !D * !Y)	0.00003	0.00003	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(A * C * !D * !Y)	0.00014	0.00014	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * !Y)	-0.00016	-0.00015	-0.00014
	(A * !C * D * !Y)	0.00014	0.00014	0.00015
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	-0.00017	-0.00016	-0.00015
	(A * !C * !D * !Y)	0.00013	0.00014	0.00014
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00017	-0.00016	-0.00015
	(!A * C * D * !Y)	0.00014	0.00014	0.00014
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00003	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00003	-0.00003
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(A * B * !D * !Y)	-0.00011	-0.00012	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00001
	(A * B * !D * !Y)	0.00017	0.00018	0.00018
	(!B * D * !Y)	-0.00012	-0.00012	-0.00012
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00003	0.00003	0.00004
	(!B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * D * !Y)	-0.00012	-0.00012	-0.00012
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00002	0.00003
	(!A * B * D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00003	0.00003	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(A * B * !D * !Y)	0.00012	0.00013	0.00014
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00000	-0.00000
	(A * B * !D * !Y)	-0.00017	-0.00016	-0.00015
	(!B * D * !Y)	0.00012	0.00012	0.00012
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00002	-0.00002
	(!B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00013	0.00013
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00003	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(!C * !Y)	-0.00021	-0.00021	-0.00020
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00008	0.00008
	(!B * C * !Y)	-0.00021	-0.00021	-0.00020
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00021	-0.00020
	(!A * B * C * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * C * !Y)	0.00001	0.00001	0.00002
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

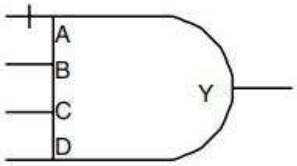
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7L	(!C * !Y)	0.00020	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00008	-0.00007	-0.00007
	(!B * C * !Y)	0.00020	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00020	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!A * B * C * !Y)	-0.00008	-0.00007	-0.00007

AND4X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X2H7L	0.00073	0.00069	0.00066	0.00080	0.09018

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X2H7L	0.00000	0.81856	3.01978

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7L	A->Y (RR)	0.06842	0.20179	0.52720
	B->Y (RR)	0.06666	0.20464	0.53932
	C->Y (RR)	0.06323	0.20544	0.54602
	D->Y (RR)	0.06108	0.20282	0.54277

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7L	A->Y (FF)	0.04801	0.16893	0.45563
	B->Y (FF)	0.04567	0.16481	0.44697
	C->Y (FF)	0.04284	0.16005	0.43801
	D->Y (FF)	0.04132	0.15644	0.43243

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7L	A	0.00074	0.00089	0.00164
	A	0.00002	0.00002	0.00002
	A	-0.00009	-0.00009	-0.00008
	A	0.00193	0.00208	0.00283
	B	0.00074	0.00090	0.00171
	B	0.00002	0.00002	0.00002
	B	-0.00006	-0.00006	-0.00006
	B	0.00175	0.00190	0.00271
	C	0.00076	0.00092	0.00180
	C	0.00001	0.00002	0.00002
	C	-0.00002	-0.00002	-0.00002
	C	0.00160	0.00177	0.00264
	D	0.00075	0.00096	0.00204
	D	0.00002	0.00002	0.00002
	D	0.00000	0.00001	0.00002
	D	0.00152	0.00173	0.00281

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7L	A	0.00203	0.00226	0.00346
	A	-0.00002	-0.00002	-0.00002
	A	0.00009	0.00009	0.00009
	A	0.00086	0.00110	0.00230
	B	0.00190	0.00213	0.00332
	B	-0.00002	-0.00002	-0.00002
	B	0.00006	0.00006	0.00006
	B	0.00091	0.00114	0.00234
	C	0.00175	0.00199	0.00318
	C	-0.00002	-0.00002	-0.00001
	C	0.00002	0.00002	0.00002
	C	0.00091	0.00115	0.00234
	D	0.00166	0.00191	0.00313
	D	-0.00002	-0.00002	-0.00002
	D	-0.00001	-0.00001	0.00000
	D	0.00083	0.00113	0.00236

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	0.00021	0.00021	0.00022
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	0.00021	0.00022	0.00022
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(B * !C * !D * !Y)	0.00021	0.00021	0.00021
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00001
	(!B * C * D * !Y)	0.00021	0.00022	0.00022
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00021	0.00021
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(B * C * !D * !Y)	0.00015	0.00015	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(B * C * !D * !Y)	-0.00020	-0.00020	-0.00018
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(B * !C * D * !Y)	-0.00020	-0.00020	-0.00018
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00000	-0.00000
	(!B * C * D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00021	-0.00020	-0.00020
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00001
	(A * C * !D * !Y)	0.00018	0.00018	0.00019
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	0.00018	0.00018	0.00019
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00017	0.00017	0.00017
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00003	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * !Y)	-0.00000	0.00002	0.00014
	(!A * !C * !D * !Y)	0.00003	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(A * C * !D * !Y)	0.00014	0.00014	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00000	0.00000
	(A * C * !D * !Y)	-0.00017	-0.00016	-0.00014
	(A * !C * D * !Y)	0.00014	0.00014	0.00015
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * !Y)	-0.00017	-0.00017	-0.00016
	(A * !C * !D * !Y)	0.00013	0.00013	0.00014
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00017	-0.00017	-0.00016
	(!A * C * D * !Y)	0.00013	0.00014	0.00014
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * !C * !D * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00001
	(A * B * !D * !Y)	0.00018	0.00019	0.00019
	(!B * D * !Y)	-0.00012	-0.00012	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00012	-0.00012	-0.00012
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * D * !Y)	-0.00012	-0.00012	-0.00012
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00012	-0.00012	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(A * B * !D * !Y)	0.00012	0.00013	0.00014
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00000	-0.00000	0.00001
	(A * B * !D * !Y)	-0.00018	-0.00017	-0.00016
	(!B * D * !Y)	0.00012	0.00012	0.00012
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * D * !Y)	0.00012	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00002	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00013	0.00013
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

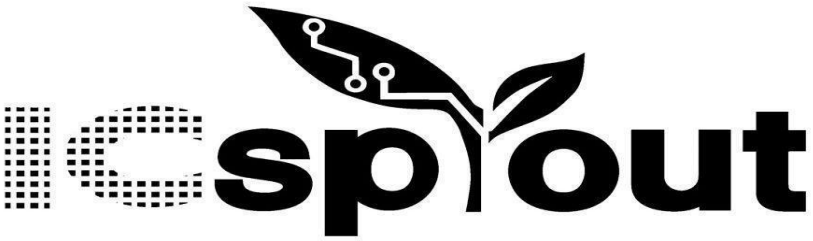
Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(!C * !Y)	-0.00021	-0.00021	-0.00021
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00007	0.00008	0.00008
	(!B * C * !Y)	-0.00021	-0.00021	-0.00021
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00008	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00021	-0.00021
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7L	(!C * !Y)	0.00021	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00008	-0.00008	-0.00007
	(!B * C * !Y)	0.00021	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * C * !Y)	0.00021	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * C * !Y)	-0.00008	-0.00008	-0.00007

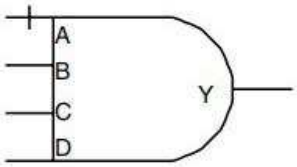
AND4X3H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	**B**	**C**	**D**	**Y**
0	**x**	**x**	**x**	**0**
1	**0**	**x**	**x**	**0**
1	**1**	**0**	**x**	**0**
1	**1**	**1**	**0**	**0**
1	**1**	**1**	**1**	**1**

Footprint

Cell Name	Area
AND4X3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X3H7L	0.00076	0.00070	0.00067	0.00080	0.12728

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X3H7L	0.00000	0.91430	3.56759

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7L	A->Y (RR)	0.07855	0.21731	0.55347
	B->Y (RR)	0.07665	0.22079	0.56773
	C->Y (RR)	0.07312	0.22222	0.57655
	D->Y (RR)	0.07116	0.22024	0.57387

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7L	A->Y (FF)	0.04151	0.15841	0.43219
	B->Y (FF)	0.03982	0.15517	0.42518
	C->Y (FF)	0.03771	0.15144	0.41797
	D->Y (FF)	0.03685	0.14873	0.41274

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7L	A	0.00091	0.00110	0.00209
	A	0.00002	0.00002	0.00002
	A	-0.00006	-0.00006	-0.00006
	A	0.00209	0.00227	0.00326
	B	0.00092	0.00111	0.00219
	B	0.00002	0.00002	0.00002
	B	-0.00004	-0.00003	-0.00003
	B	0.00191	0.00210	0.00317
	C	0.00092	0.00113	0.00230
	C	0.00002	0.00002	0.00002
	C	-0.00001	-0.00000	-0.00000
	C	0.00177	0.00198	0.00314
	D	0.00092	0.00117	0.00259
	D	0.00002	0.00002	0.00002
	D	0.00003	0.00003	0.00004
	D	0.00170	0.00195	0.00336

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7L	A	0.00219	0.00245	0.00391
	A	-0.00002	-0.00002	0.00000
	A	0.00006	0.00006	0.00006
	A	0.00104	0.00130	0.00276
	B	0.00207	0.00233	0.00377
	B	-0.00002	-0.00002	0.00000
	B	0.00003	0.00003	0.00004
	B	0.00110	0.00136	0.00281
	C	0.00194	0.00220	0.00364
	C	-0.00002	-0.00002	-0.00002
	C	0.00000	0.00001	0.00001
	C	0.00110	0.00136	0.00281
	D	0.00185	0.00213	0.00361
	D	-0.00002	-0.00002	0.00001
	D	-0.00003	-0.00003	-0.00003
	D	0.00102	0.00135	0.00284

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(B * C * !D * !Y)	-0.00017	-0.00017	-0.00016
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00000	0.00001
	(B * C * !D * !Y)	0.00020	0.00021	0.00022
	(B * !C * D * !Y)	-0.00017	-0.00017	-0.00016
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00000	0.00001
	(B * !C * D * !Y)	0.00020	0.00021	0.00022
	(B * !C * !D * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(B * !C * !D * !Y)	0.00021	0.00021	0.00021
	(!B * C * D * !Y)	-0.00017	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	0.00022	0.00022	0.00022
	(!B * !D * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00000	0.00001	0.00001
	(!B * !D * !Y)	0.00021	0.00021	0.00021
	(!B * !C * D * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00000	0.00001	0.00001
	(!B * !C * D * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(B * C * !D * !Y)	0.00017	0.00017	0.00017
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00000	-0.00000
	(B * C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(B * !C * D * !Y)	0.00017	0.00017	0.00017
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00000	-0.00000
	(B * !C * D * !Y)	-0.00021	-0.00020	-0.00019
	(B * !C * !D * !Y)	0.00017	0.00017	0.00017
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * !Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * !Y)	0.00017	0.00017	0.00017
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00000	-0.00000	0.00000
	(!B * C * D * !Y)	-0.00021	-0.00021	-0.00020
	(!B * !D * !Y)	0.00017	0.00017	0.00017
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * !Y)	-0.00021	-0.00021	-0.00020
	(!B * !C * D * !Y)	0.00017	0.00017	0.00017
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	0.00017	0.00017	0.00017
	(A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00000	0.00001
	(A * !C * D * !Y)	0.00016	0.00017	0.00017
	(A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00002	0.00002
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00003	0.00003	0.00003
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(A * C * !D * !Y)	0.00015	0.00016	0.00017
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * !Y)	-0.00016	-0.00015	-0.00013
	(A * !C * D * !Y)	0.00015	0.00015	0.00016
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00000	-0.00000
	(A * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00016	-0.00015	-0.00015
	(!A * C * D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00001
	(A * B * !D * !Y)	0.00017	0.00018	0.00018
	(!B * D * !Y)	-0.00013	-0.00013	-0.00013
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00002	0.00002
	(!B * D * !Y)	0.00007	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00003	0.00003	0.00003
	(!B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00002	0.00003
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !D * !Y)	-0.00000	-0.00000	0.00000
	(!A * B * !D * !Y)	0.00003	0.00003	0.00003
	(!A * B * !D * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(A * B * !D * !Y)	0.00014	0.00014	0.00015
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00000	-0.00000	0.00001
	(A * B * !D * !Y)	-0.00017	-0.00016	-0.00016
	(!B * D * !Y)	0.00013	0.00014	0.00014
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00014	0.00014
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00013	0.00014	0.00014
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00014	0.00014	0.00015
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

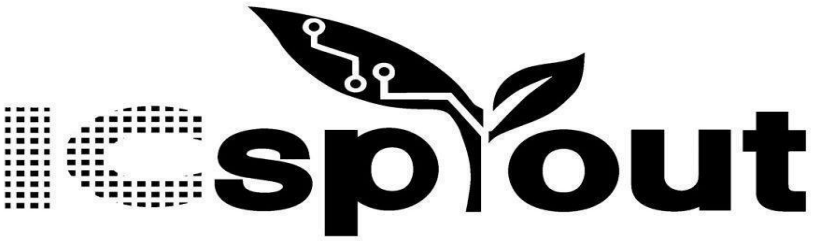
Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(!C * !Y)	-0.00022	-0.00022	-0.00022
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00022	-0.00022	-0.00022
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00006	0.00007	0.00007
	(!A * B * C * !Y)	-0.00022	-0.00022	-0.00022
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7L	(!C * !Y)	0.00022	0.00022	0.00022
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00022	0.00022	0.00022
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * !Y)	0.00022	0.00022	0.00022
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

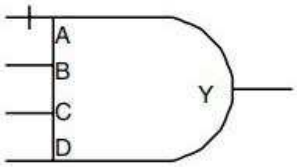
AND4X4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X4H7L	0.00129	0.00126	0.00123	0.00131	0.17979

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X4H7L	0.00000	1.59699	5.79343

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7L	A->Y (RR)	0.07348	0.21025	0.53602
	B->Y (RR)	0.07153	0.21196	0.54591
	C->Y (RR)	0.06765	0.21178	0.55253
	D->Y (RR)	0.06028	0.20406	0.54392

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7L	A->Y (FF)	0.05509	0.18207	0.47941
	B->Y (FF)	0.05209	0.17654	0.46876
	C->Y (FF)	0.04855	0.17062	0.45760
	D->Y (FF)	0.04388	0.16291	0.44557

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7L	A	0.00160	0.00184	0.00327
	A	0.00002	0.00002	0.00003
	A	-0.00015	-0.00015	-0.00015
	A	0.00390	0.00414	0.00556
	B	0.00160	0.00187	0.00348
	B	0.00002	0.00002	0.00003
	B	-0.00010	-0.00009	-0.00008
	B	0.00352	0.00379	0.00539
	C	0.00160	0.00191	0.00370
	C	0.00001	0.00002	0.00003
	C	-0.00004	-0.00003	0.00000
	C	0.00315	0.00347	0.00525
	D	0.00160	0.00200	0.00423
	D	0.00002	0.00002	0.00003
	D	0.00002	0.00003	0.00005
	D	0.00283	0.00325	0.00547

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7L	A	0.00419	0.00464	0.00707
	A	-0.00003	-0.00002	0.00003
	A	0.00015	0.00015	0.00015
	A	0.00199	0.00243	0.00487
	B	0.00386	0.00430	0.00671
	B	-0.00002	-0.00002	0.00000
	B	0.00009	0.00009	0.00010
	B	0.00199	0.00242	0.00485
	C	0.00354	0.00397	0.00638
	C	-0.00002	-0.00002	-0.00001
	C	0.00000	0.00006	0.00077
	C	0.00159	0.00242	0.00486
	D	0.00313	0.00360	0.00609
	D	-0.00003	-0.00002	-0.00001
	D	-0.00003	-0.00003	0.00001
	D	0.00186	0.00235	0.00486

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(B * C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00042	0.00043	0.00044
	(B * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00043	0.00044	0.00044
	(B * !C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00002	0.00002
	(B * !C * !D * !Y)	0.00041	0.00042	0.00042
	(!B * C * D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00001	0.00001
	(!B * C * D * !Y)	0.00045	0.00045	0.00046
	(!B * !D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00042	0.00043	0.00043
	(!B * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00042	0.00043	0.00043

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(B * C * !D * !Y)	0.00021	0.00021	0.00022
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00041	-0.00039	-0.00034
	(B * !C * D * !Y)	0.00020	0.00021	0.00021
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00042	-0.00039	-0.00035
	(B * !C * !D * !Y)	0.00020	0.00020	0.00020
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00042	-0.00039	-0.00036
	(!B * C * D * !Y)	0.00020	0.00021	0.00021
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	0.00000
	(!B * C * D * !Y)	-0.00043	-0.00040	-0.00036
	(!B * !D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00043	-0.00041	-0.00038
	(!B * !C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00043	-0.00041	-0.00038

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(A * C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00001	0.00001
	(A * C * !D * !Y)	0.00042	0.00042	0.00043
	(A * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00001	0.00001
	(A * !C * D * !Y)	0.00042	0.00043	0.00043
	(A * !C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00040	0.00040	0.00040
	(!A * C * D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00004	0.00005	0.00005
	(!A * C * D * !Y)	0.00014	0.00015	0.00015
	(!A * C * !D * !Y)	-0.00022	-0.00021	-0.00021
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00005	0.00006	0.00006
	(!A * C * !D * !Y)	0.00016	0.00016	0.00017
	(!A * !C * D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	0.00015	0.00015	0.00016
	(!A * !C * !D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(A * C * !D * !Y)	0.00021	0.00022	0.00026
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	0.00000
	(A * C * !D * !Y)	-0.00040	-0.00037	-0.00032
	(A * !C * D * !Y)	0.00021	0.00021	0.00023
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	0.00000
	(A * !C * D * !Y)	-0.00040	-0.00038	-0.00036
	(A * !C * !D * !Y)	0.00020	0.00020	0.00021
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00040	-0.00038	-0.00036
	(!A * C * D * !Y)	0.00021	0.00021	0.00021
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00005	-0.00004	-0.00004
	(!A * C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * !D * !Y)	0.00022	0.00022	0.00022
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00005
	(!A * C * !D * !Y)	-0.00017	-0.00016	-0.00016
	(!A * !C * D * !Y)	0.00021	0.00021	0.00022
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(!A * !C * !D * !Y)	0.00021	0.00021	0.00021
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(A * B * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00001	0.00001
	(A * B * !D * !Y)	0.00042	0.00043	0.00043
	(!B * D * !Y)	-0.00022	-0.00022	-0.00022
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00004	0.00005
	(!B * D * !Y)	0.00016	0.00016	0.00018
	(!B * !D * !Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00005	0.00006
	(!B * !D * !Y)	0.00017	0.00017	0.00018
	(!A * B * D * !Y)	-0.00022	-0.00022	-0.00021
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00004	0.00004	0.00005
	(!A * B * D * !Y)	0.00014	0.00015	0.00016
	(!A * B * !D * !Y)	-0.00022	-0.00021	-0.00021
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00006	0.00006	0.00006
	(!A * B * !D * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(A * B * !D * !Y)	0.00021	0.00023	0.00028
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * B * !D * !Y)	-0.00041	-0.00038	-0.00034
	(!B * D * !Y)	0.00022	0.00022	0.00022
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!B * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	0.00023	0.00023	0.00023
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00006	-0.00005	-0.00004
	(!B * !D * !Y)	-0.00017	-0.00017	-0.00017
	(!A * B * D * !Y)	0.00022	0.00022	0.00022
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00005	-0.00004	-0.00004
	(!A * B * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * B * !D * !Y)	0.00022	0.00023	0.00025
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(!C * !Y)	-0.00036	-0.00035	-0.00035
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00015	0.00016	0.00017
	(!B * C * !Y)	-0.00036	-0.00035	-0.00035
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00014	0.00014	0.00015
	(!A * B * C * !Y)	-0.00035	-0.00035	-0.00035
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00014	0.00014	0.00015

Passive power(pJ) for D falling (conditional):

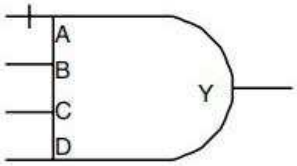
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7L	(!C * !Y)	0.00035	0.00036	0.00036
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00016	-0.00015	-0.00015
	(!B * C * !Y)	0.00035	0.00036	0.00036
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * B * C * !Y)	0.00035	0.00036	0.00036
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00014	-0.00014	-0.00013

AND4X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AND4 cell provides the logical AND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
AND4X6H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X6H7L	0.00139	0.00134	0.00133	0.00139	0.25414

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X6H7L	0.00000	1.82859	7.13521

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7L	A->Y (RR)	0.07904	0.22015	0.55554
	B->Y (RR)	0.07700	0.22243	0.56768
	C->Y (RR)	0.07325	0.22309	0.57746
	D->Y (RR)	0.06557	0.21574	0.56974

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7L	A->Y (FF)	0.04115	0.15985	0.43585
	B->Y (FF)	0.03939	0.15585	0.42666
	C->Y (FF)	0.03729	0.15163	0.41809
	D->Y (FF)	0.03428	0.14588	0.40891

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7L	A	0.00181	0.00216	0.00414
	A	0.00003	0.00004	0.00005
	A	-0.00013	-0.00013	-0.00012
	A	0.00425	0.00457	0.00654
	B	0.00179	0.00219	0.00441
	B	0.00003	0.00004	0.00005
	B	-0.00007	-0.00007	-0.00007
	B	0.00386	0.00422	0.00643
	C	0.00181	0.00224	0.00468
	C	0.00003	0.00004	0.00005
	C	-0.00001	-0.00001	0.00002
	C	0.00349	0.00391	0.00634
	D	0.00183	0.00235	0.00533
	D	0.00003	0.00004	0.00005
	D	0.00005	0.00006	0.00009
	D	0.00318	0.00371	0.00666

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7L	A	0.00458	0.00516	0.00816
	A	-0.00004	-0.00004	0.00008
	A	0.00012	0.00013	0.00013
	A	0.00230	0.00283	0.00585
	B	0.00429	0.00482	0.00779
	B	-0.00004	-0.00004	-0.00003
	B	0.00007	0.00007	0.00007
	B	0.00232	0.00283	0.00583
	C	0.00397	0.00450	0.00747
	C	-0.00004	-0.00004	-0.00003
	C	0.00000	0.00001	0.00003
	C	0.00233	0.00284	0.00583
	D	0.00357	0.00413	0.00721
	D	-0.00005	-0.00004	-0.00003
	D	-0.00006	-0.00005	0.00011
	D	0.00205	0.00275	0.00587

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(B * C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00042	0.00043	0.00043
	(B * !C * D * !Y)	-0.00026	-0.00026	-0.00026
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00042	0.00043	0.00043
	(B * !C * !D * !Y)	-0.00027	-0.00026	-0.00026
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00002	0.00002
	(B * !C * !D * !Y)	0.00041	0.00041	0.00042
	(!B * C * D * !Y)	-0.00026	-0.00026	-0.00026
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	0.00043	0.00044	0.00045
	(!B * !D * !Y)	-0.00026	-0.00026	-0.00026
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00042	0.00042	0.00043
	(!B * !C * D * !Y)	-0.00026	-0.00026	-0.00026
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00042	0.00042	0.00043

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(B * C * !D * !Y)	0.00027	0.00028	0.00028
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00041	-0.00038	-0.00034
	(B * !C * D * !Y)	0.00027	0.00027	0.00027
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00041	-0.00039	-0.00036
	(B * !C * !D * !Y)	0.00026	0.00026	0.00027
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * !Y)	-0.00041	-0.00039	-0.00035
	(!B * C * D * !Y)	0.00027	0.00027	0.00027
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00042	-0.00040	-0.00038
	(!B * !D * !Y)	0.00026	0.00026	0.00027
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00042	-0.00040	-0.00037
	(!B * !C * D * !Y)	0.00026	0.00026	0.00027
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00042	-0.00040	-0.00037

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(A * C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00001	0.00001	0.00002
	(A * C * !D * !Y)	0.00039	0.00041	0.00041
	(A * !C * D * !Y)	-0.00026	-0.00026	-0.00026
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00001	0.00001
	(A * !C * D * !Y)	0.00041	0.00042	0.00042
	(A * !C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00039	0.00039	0.00039
	(!A * C * D * !Y)	-0.00027	-0.00026	-0.00026
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00003	0.00004	0.00005
	(!A * C * D * !Y)	0.00014	0.00015	0.00015
	(!A * C * !D * !Y)	-0.00028	-0.00027	-0.00027
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	0.00015	0.00016	0.00016
	(!A * !C * D * !Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00005	0.00006	0.00006
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	-0.00027	-0.00027	-0.00026
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00005	0.00006	0.00006
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(A * C * !D * !Y)	0.00027	0.00028	0.00031
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00039	-0.00036	-0.00030
	(A * !C * D * !Y)	0.00026	0.00027	0.00029
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	0.00000
	(A * !C * D * !Y)	-0.00039	-0.00037	-0.00033
	(A * !C * !D * !Y)	0.00026	0.00026	0.00027
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00039	-0.00037	-0.00035
	(!A * C * D * !Y)	0.00027	0.00027	0.00027
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	0.00028	0.00028	0.00028
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * !C * D * !Y)	0.00027	0.00027	0.00027
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * !Y)	0.00027	0.00027	0.00027
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(A * B * !D * !Y)	-0.00026	-0.00026	-0.00026
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00000	0.00000	0.00001
	(A * B * !D * !Y)	0.00042	0.00042	0.00043
	(!B * D * !Y)	-0.00028	-0.00028	-0.00028
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00004	0.00005
	(!B * D * !Y)	0.00016	0.00016	0.00018
	(!B * !D * !Y)	-0.00028	-0.00028	-0.00028
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00005	0.00005	0.00006
	(!B * !D * !Y)	0.00016	0.00017	0.00017
	(!A * B * D * !Y)	-0.00028	-0.00028	-0.00027
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00003	0.00004	0.00005
	(!A * B * D * !Y)	0.00014	0.00015	0.00016
	(!A * B * !D * !Y)	-0.00028	-0.00028	-0.00027
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00005	0.00006	0.00006
	(!A * B * !D * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(A * B * !D * !Y)	0.00027	0.00029	0.00034
	(A * B * !D * !Y)	0.00000	0.00000	0.00001
	(A * B * !D * !Y)	-0.00001	-0.00000	0.00000
	(A * B * !D * !Y)	-0.00040	-0.00038	-0.00033
	(!B * D * !Y)	0.00028	0.00028	0.00028
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00004	-0.00004	-0.00002
	(!B * D * !Y)	-0.00016	-0.00016	-0.00015
	(!B * !D * !Y)	0.00028	0.00029	0.00029
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00006	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00017	-0.00016	-0.00016
	(!A * B * D * !Y)	0.00028	0.00028	0.00028
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00005	-0.00004	-0.00003
	(!A * B * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * B * !D * !Y)	0.00028	0.00030	0.00031
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * !Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(!C * !Y)	-0.00041	-0.00041	-0.00041
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00015	0.00015	0.00016
	(!B * C * !Y)	-0.00041	-0.00041	-0.00040
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00013	0.00013	0.00014
	(!A * B * C * !Y)	-0.00041	-0.00041	-0.00040
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00013	0.00013	0.00014

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7L	(!C * !Y)	0.00041	0.00041	0.00041
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00015	-0.00014	-0.00014
	(!B * C * !Y)	0.00041	0.00041	0.00041
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * !Y)	0.00041	0.00041	0.00041
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00013	-0.00013	-0.00012

AO211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P5H7L	0.00074	0.00072	0.00070	0.00080	0.04546

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P5H7L	0.00000	1.53956	3.49671

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7L	A0->Y (RR)	0.04405	0.17477	0.49279
	A1->Y (RR)	0.04227	0.17383	0.49236
	B0->Y (RR)	0.02944	0.15480	0.46155
	C0->Y (RR)	0.02879	0.15263	0.45838

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7L	A0->Y (FF)	0.07648	0.19003	0.46653
	A1->Y (FF)	0.06988	0.18163	0.45757
	B0->Y (FF)	0.06942	0.18903	0.48412
	C0->Y (FF)	0.06646	0.18738	0.48502

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7L	A0	0.00032	0.00045	0.00094
	A0	0.00007	0.00007	0.00007
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00152	0.00165	0.00214
	A1	0.00033	0.00050	0.00114
	A1	0.00007	0.00007	0.00007
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00135	0.00152	0.00217
	B0	0.00032	0.00052	0.00124
	B0	0.00003	0.00003	0.00003
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00126	0.00146	0.00214
	C0	0.00033	0.00056	0.00135
	C0	-0.00000	0.00000	0.00000
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00121	0.00142	0.00217

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7L	A0	0.00167	0.00178	0.00232
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00043	0.00055	0.00110
	A1	0.00154	0.00167	0.00225
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00003	0.00003	0.00003
	A1	0.00045	0.00060	0.00119
	B0	0.00138	0.00153	0.00219
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00006	0.00006	0.00006
	B0	0.00039	0.00059	0.00131
	C0	0.00127	0.00147	0.00229
	C0	-0.00000	0.00000	0.00002
	C0	0.00006	0.00006	0.00006
	C0	0.00038	0.00060	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00030	-0.00029	-0.00029

AO211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P7H7L	0.00074	0.00072	0.00070	0.00080	0.05174

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P7H7L	0.00000	1.60009	3.50850

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7L	A0->Y (RR)	0.04351	0.17516	0.49488
	A1->Y (RR)	0.04171	0.17422	0.49377
	B0->Y (RR)	0.02870	0.15490	0.46299
	C0->Y (RR)	0.02813	0.15280	0.45996

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7L	A0->Y (FF)	0.07654	0.19051	0.46666
	A1->Y (FF)	0.06995	0.18210	0.45759
	B0->Y (FF)	0.06933	0.18943	0.48422
	C0->Y (FF)	0.06646	0.18784	0.48567

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7L	A0	0.00035	0.00048	0.00099
	A0	0.00006	0.00006	0.00007
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00154	0.00167	0.00218
	A1	0.00036	0.00053	0.00120
	A1	0.00006	0.00006	0.00007
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00137	0.00155	0.00222
	B0	0.00034	0.00055	0.00129
	B0	0.00003	0.00003	0.00003
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00128	0.00148	0.00219
	C0	0.00036	0.00059	0.00140
	C0	-0.00000	-0.00000	0.00001
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00123	0.00145	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7L	A0	0.00170	0.00181	0.00238
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	0.00046	0.00059	0.00116
	A1	0.00157	0.00169	0.00231
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00003	0.00003	0.00003
	A1	0.00048	0.00064	0.00125
	B0	0.00140	0.00155	0.00224
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00006	0.00006	0.00006
	B0	0.00043	0.00062	0.00137
	C0	0.00130	0.00150	0.00235
	C0	0.00000	0.00000	0.00001
	C0	0.00006	0.00006	0.00006
	C0	0.00042	0.00064	0.00156

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * C0 * Y)	0.00010	0.00010	0.00011
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	0.00013	0.00014	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00030	-0.00029	-0.00029

AO211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1H7L	0.00074	0.00072	0.00070	0.00080	0.06151

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1H7L	0.00000	1.70181	3.52940

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7L	A0->Y (RR)	0.04300	0.17568	0.49705
	A1->Y (RR)	0.04119	0.17479	0.49668
	B0->Y (RR)	0.02788	0.15490	0.46379
	C0->Y (RR)	0.02726	0.15281	0.46099

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7L	A0->Y (FF)	0.07722	0.19312	0.47213
	A1->Y (FF)	0.07069	0.18474	0.46354
	B0->Y (FF)	0.06973	0.19184	0.48980
	C0->Y (FF)	0.06689	0.19030	0.49119

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7L	A0	0.00040	0.00053	0.00106
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00157	0.00171	0.00224
	A1	0.00040	0.00057	0.00128
	A1	0.00006	0.00006	0.00006
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00141	0.00159	0.00229
	B0	0.00038	0.00059	0.00136
	B0	0.00002	0.00002	0.00002
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00131	0.00151	0.00226
	C0	0.00039	0.00062	0.00147
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00126	0.00148	0.00229

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7L	A0	0.00174	0.00186	0.00247
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00007
	A0	0.00051	0.00064	0.00125
	A1	0.00161	0.00174	0.00239
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00003	0.00003	0.00003
	A1	0.00051	0.00069	0.00135
	B0	0.00144	0.00160	0.00234
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00006	0.00006	0.00006
	B0	0.00047	0.00067	0.00146
	C0	0.00134	0.00154	0.00246
	C0	0.00000	0.00001	0.00002
	C0	0.00006	0.00006	0.00006
	C0	0.00046	0.00069	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	0.00013	0.00014	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

AO211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1P4H7L	0.00074	0.00072	0.00070	0.00080	0.07011

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1P4H7L	0.00000	1.81550	3.55232

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7L	A0->Y (RR)	0.04290	0.17630	0.49882
	A1->Y (RR)	0.04111	0.17549	0.49798
	B0->Y (RR)	0.02755	0.15530	0.46495
	C0->Y (RR)	0.02696	0.15321	0.46194

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7L	A0->Y (FF)	0.07792	0.19436	0.47339
	A1->Y (FF)	0.07148	0.18603	0.46418
	B0->Y (FF)	0.07052	0.19328	0.49108
	C0->Y (FF)	0.06770	0.19174	0.49251

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7L	A0	0.00044	0.00057	0.00114
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00160	0.00174	0.00231
	A1	0.00044	0.00061	0.00137
	A1	0.00006	0.00006	0.00006
	A1	-0.00002	-0.00002	0.00000
	A1	0.00143	0.00162	0.00238
	B0	0.00041	0.00063	0.00145
	B0	0.00000	0.00002	0.00005
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00134	0.00155	0.00234
	C0	0.00043	0.00066	0.00155
	C0	-0.00001	-0.00001	-0.00000
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00129	0.00152	0.00237

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7L	A0	0.00178	0.00191	0.00256
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00056	0.00070	0.00136
	A1	0.00165	0.00179	0.00248
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00002	0.00002	0.00003
	A1	0.00055	0.00074	0.00144
	B0	0.00149	0.00165	0.00244
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00005	0.00006	0.00006
	B0	0.00055	0.00073	0.00156
	C0	0.00138	0.00160	0.00257
	C0	0.00001	0.00001	0.00002
	C0	0.00006	0.00006	0.00006
	C0	0.00051	0.00075	0.00177

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

AO211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X2H7L	0.00071	0.00071	0.00068	0.00077	0.09066

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X2H7L	0.00000	2.46757	3.71905

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7L	A0->Y (RR)	0.04649	0.18293	0.51040
	A1->Y (RR)	0.04550	0.18310	0.51069
	B0->Y (RR)	0.02992	0.16092	0.47458
	C0->Y (RR)	0.02959	0.15931	0.47183

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7L	A0->Y (FF)	0.08520	0.20672	0.49249
	A1->Y (FF)	0.08102	0.20021	0.48452
	B0->Y (FF)	0.07955	0.20741	0.51252
	C0->Y (FF)	0.07788	0.20676	0.51527

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7L	A0	0.00067	0.00082	0.00153
	A0	0.00005	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00178	0.00193	0.00264
	A1	0.00067	0.00086	0.00181
	A1	0.00005	0.00005	0.00005
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00166	0.00186	0.00280
	B0	0.00064	0.00088	0.00184
	B0	0.00001	0.00002	0.00004
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00153	0.00177	0.00272
	C0	0.00067	0.00092	0.00195
	C0	-0.00002	-0.00001	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00148	0.00172	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7L	A0	0.00204	0.00220	0.00308
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00086	0.00105	0.00194
	A1	0.00194	0.00210	0.00300
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00001	0.00002	0.00002
	A1	0.00086	0.00106	0.00197
	B0	0.00178	0.00198	0.00300
	B0	-0.00001	-0.00001	0.00000
	B0	0.00005	0.00005	0.00005
	B0	0.00085	0.00107	0.00211
	C0	0.00168	0.00193	0.00318
	C0	0.00000	0.00001	0.00002
	C0	0.00005	0.00005	0.00005
	C0	0.00085	0.00111	0.00239

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00028	-0.00028	-0.00028

AO211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X3H7L	0.00080	0.00081	0.00078	0.00087	0.12846

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X3H7L	0.00000	2.97251	4.26623

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7L	A0->Y (RR)	0.04140	0.17785	0.50488
	A1->Y (RR)	0.04042	0.17784	0.50448
	B0->Y (RR)	0.02665	0.15763	0.47145
	C0->Y (RR)	0.02620	0.15583	0.46805

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7L	A0->Y (FF)	0.07890	0.19993	0.48351
	A1->Y (FF)	0.07487	0.19344	0.47533
	B0->Y (FF)	0.07392	0.20121	0.50343
	C0->Y (FF)	0.07156	0.19996	0.50515

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7L	A0	0.00082	0.00101	0.00192
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00210	0.00229	0.00321
	A1	0.00081	0.00106	0.00228
	A1	0.00006	0.00006	0.00007
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00195	0.00220	0.00342
	B0	0.00078	0.00108	0.00232
	B0	0.00001	0.00001	0.00002
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00181	0.00210	0.00332
	C0	0.00082	0.00112	0.00246
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00172	0.00203	0.00334

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7L	A0	0.00239	0.00259	0.00374
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00006	0.00006	0.00006
	A0	0.00103	0.00126	0.00242
	A1	0.00225	0.00246	0.00363
	A1	-0.00007	-0.00006	-0.00004
	A1	0.00001	0.00002	0.00002
	A1	0.00099	0.00127	0.00246
	B0	0.00209	0.00233	0.00366
	B0	-0.00001	-0.00001	0.00002
	B0	0.00006	0.00006	0.00006
	B0	0.00104	0.00129	0.00264
	C0	0.00195	0.00227	0.00390
	C0	0.00000	0.00002	0.00005
	C0	0.00006	0.00006	0.00006
	C0	0.00103	0.00135	0.00300

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A0 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00022	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7L	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00032	-0.00031	-0.00031

AO211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X4H7L	0.00091	0.00092	0.00088	0.00099	0.16603

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X4H7L	0.00000	3.59885	4.95664

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7L	A0->Y (RR)	0.04040	0.17735	0.50481
	A1->Y (RR)	0.03938	0.17725	0.50405
	B0->Y (RR)	0.02598	0.15752	0.47216
	C0->Y (RR)	0.02548	0.15571	0.46870

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7L	A0->Y (FF)	0.07954	0.20151	0.48591
	A1->Y (FF)	0.07537	0.19485	0.47766
	B0->Y (FF)	0.07454	0.20287	0.50582
	C0->Y (FF)	0.07188	0.20123	0.50715

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7L	A0	0.00107	0.00129	0.00243
	A0	0.00007	0.00007	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00255	0.00277	0.00390
	A1	0.00106	0.00136	0.00288
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00235	0.00265	0.00416
	B0	0.00102	0.00138	0.00290
	B0	0.00001	0.00001	0.00001
	B0	-0.00002	-0.00002	0.00007
	B0	0.00219	0.00255	0.00406
	C0	0.00106	0.00143	0.00307
	C0	-0.00003	-0.00003	0.00000
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00209	0.00246	0.00407

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7L	A0	0.00290	0.00315	0.00459
	A0	-0.00008	-0.00007	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00128	0.00161	0.00308
	A1	0.00273	0.00298	0.00446
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00002	0.00002	0.00002
	A1	0.00132	0.00164	0.00312
	B0	0.00254	0.00284	0.00452
	B0	-0.00001	-0.00001	0.00003
	B0	0.00007	0.00007	0.00007
	B0	0.00132	0.00165	0.00335
	C0	0.00237	0.00277	0.00482
	C0	0.00000	0.00003	0.00007
	C0	0.00007	0.00007	0.00007
	C0	0.00132	0.00172	0.00380

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A1 * B0 * C0 * Y)	-0.00014	-0.00013	-0.00010
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00013	-0.00010
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A0 * B0 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * Y)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00026	0.00027	0.00028
	(!A0 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A0 * B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * C0 * Y)	-0.00017	-0.00015	-0.00014
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00024	0.00025	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00035	0.00035	0.00036
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7L	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00035	-0.00035	-0.00034

AO211X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Y=(A0 & A1)B0C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	0
0	x	x	1	1
x	x	1	x	1
1	0	0	0	0
1	0	x	1	1
1	1	x	x	1

Footprint

Cell Name	Area
AO211X6H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X6H7L	0.00102	0.00106	0.00099	0.00114	0.24817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X6H7L	0.00000	5.11702	5.90505

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7L	A0->Y (RR)	0.04334	0.18258	0.51390
	A1->Y (RR)	0.04231	0.18280	0.51371
	B0->Y (RR)	0.02738	0.16109	0.47883
	C0->Y (RR)	0.02674	0.15917	0.47529

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7L	A0->Y (FF)	0.08644	0.21122	0.49855
	A1->Y (FF)	0.08234	0.20475	0.49010
	B0->Y (FF)	0.08120	0.21213	0.51863
	C0->Y (FF)	0.07794	0.21016	0.52028

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7L	A0	0.00169	0.00199	0.00366
	A0	0.00007	0.00007	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00339	0.00368	0.00535
	A1	0.00169	0.00208	0.00430
	A1	0.00007	0.00007	0.00008
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00318	0.00357	0.00578
	B0	0.00164	0.00209	0.00424
	B0	0.00000	0.00000	0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00296	0.00341	0.00557
	C0	0.00167	0.00215	0.00445
	C0	-0.00006	-0.00005	-0.00003
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00283	0.00331	0.00559

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7L	A0	0.00384	0.00422	0.00640
	A0	-0.00008	-0.00007	0.00002
	A0	0.00007	0.00007	0.00007
	A0	0.00188	0.00246	0.00466
	A1	0.00365	0.00402	0.00622
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00000	0.00001	0.00001
	A1	0.00196	0.00246	0.00467
	B0	0.00337	0.00382	0.00634
	B0	-0.00000	0.00000	0.00004
	B0	0.00007	0.00007	0.00007
	B0	0.00187	0.00248	0.00501
	C0	0.00315	0.00372	0.00678
	C0	0.00003	0.00006	0.00006
	C0	0.00006	0.00007	0.00007
	C0	0.00188	0.00255	0.00564

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A1 * B0 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00015	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00028	0.00029	0.00030
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A1 * B0 * C0 * Y)	0.00018	0.00018	0.00019
	(A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00027	0.00028
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A0 * B0 * C0 * Y)	-0.00019	-0.00017	-0.00013
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00017	-0.00013
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00029	0.00030	0.00031
	(A0 * !B0 * C0 * Y)	-0.00019	-0.00016	-0.00012
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00029	0.00030	0.00031
	(!A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * C0 * Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * !C0 * !Y)	0.00033	0.00034	0.00034
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00030	0.00031	0.00031
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * C0 * Y)	0.00027	0.00028	0.00031
	(!A0 * A1 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00028	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !C0 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * !C0 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00042	0.00042	0.00042
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00042	0.00042	0.00043
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for C0 falling (conditional):

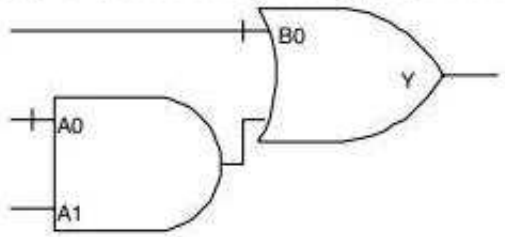
Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00041	-0.00041	-0.00041
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00041	-0.00041	-0.00041

AO21X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P5H7L	0.00067	0.00069	0.00078	0.04549

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P5H7L	0.00000	1.51883	2.40603

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7L	A0->Y (RR)	0.03851	0.16641	0.48191
	A1->Y (RR)	0.03711	0.16556	0.48030
	B0->Y (RR)	0.02663	0.14941	0.45404

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7L	A0->Y (FF)	0.04917	0.15949	0.42985
	A1->Y (FF)	0.04545	0.15321	0.42259
	B0->Y (FF)	0.04480	0.15721	0.43805

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7L	A0	0.00033	0.00048	0.00104
	A0	0.00004	0.00004	0.00004
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00126	0.00142	0.00197
	A1	0.00033	0.00053	0.00124
	A1	0.00004	0.00004	0.00004
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00110	0.00130	0.00201
	B0	0.00031	0.00059	0.00151
	B0	-0.00000	0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00103	0.00128	0.00215

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7L	A0	0.00135	0.00150	0.00213
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00005	0.00005	0.00005
	A0	0.00040	0.00054	0.00118
	A1	0.00121	0.00139	0.00209
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00001	0.00002	0.00002
	A1	0.00042	0.00060	0.00130
	B0	0.00096	0.00125	0.00228
	B0	-0.00000	0.00000	0.00000
	B0	0.00005	0.00005	0.00005
	B0	0.00037	0.00066	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00021	0.00022	0.00024
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A0 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

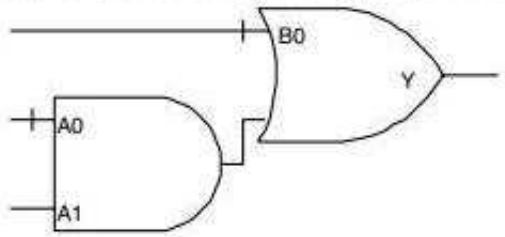
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00028	-0.00028	-0.00027

AO21X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P7H7L	0.00067	0.00069	0.00078	0.05189

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P7H7L	0.00000	1.56811	2.41781

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7L	A0->Y (RR)	0.03801	0.16706	0.48522
	A1->Y (RR)	0.03660	0.16628	0.48295
	B0->Y (RR)	0.02594	0.14985	0.45624

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7L	A0->Y (FF)	0.04906	0.15981	0.43050
	A1->Y (FF)	0.04536	0.15354	0.42292
	B0->Y (FF)	0.04467	0.15753	0.43838

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7L	A0	0.00035	0.00051	0.00108
	A0	0.00004	0.00004	0.00004
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00129	0.00145	0.00201
	A1	0.00036	0.00056	0.00130
	A1	0.00004	0.00004	0.00004
	A1	-0.00001	-0.00001	0.00001
	A1	0.00113	0.00133	0.00206
	B0	0.00034	0.00062	0.00156
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00001	-0.00001
	B0	0.00106	0.00131	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7L	A0	0.00138	0.00153	0.00218
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00005	0.00005	0.00005
	A0	0.00043	0.00057	0.00123
	A1	0.00124	0.00142	0.00214
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00001	0.00001	0.00002
	A1	0.00045	0.00063	0.00135
	B0	0.00098	0.00128	0.00234
	B0	0.00000	0.00000	0.00002
	B0	0.00005	0.00005	0.00005
	B0	0.00040	0.00069	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00021	0.00022	0.00024
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A0 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

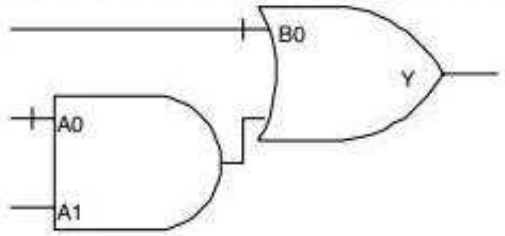
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00028	-0.00028	-0.00027

AO21X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1H7L	0.00067	0.00068	0.00077	0.06167

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1H7L	0.00000	1.65118	2.43870

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7L	A0->Y (RR)	0.03743	0.16725	0.48551
	A1->Y (RR)	0.03600	0.16655	0.48514
	B0->Y (RR)	0.02512	0.14975	0.45680

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7L	A0->Y (FF)	0.04909	0.16142	0.43487
	A1->Y (FF)	0.04543	0.15518	0.42729
	B0->Y (FF)	0.04460	0.15908	0.44299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7L	A0	0.00040	0.00056	0.00116
	A0	0.00003	0.00003	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00132	0.00148	0.00208
	A1	0.00041	0.00062	0.00139
	A1	0.00003	0.00003	0.00004
	A1	-0.00001	-0.00001	0.00001
	A1	0.00114	0.00137	0.00214
	B0	0.00039	0.00067	0.00165
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00109	0.00135	0.00227

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7L	A0	0.00139	0.00156	0.00225
	A0	-0.00004	-0.00003	-0.00001
	A0	0.00004	0.00004	0.00004
	A0	0.00047	0.00062	0.00132
	A1	0.00127	0.00145	0.00221
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00001	0.00001	0.00001
	A1	0.00050	0.00067	0.00144
	B0	0.00115	0.00140	0.00241
	B0	0.00000	0.00001	0.00002
	B0	0.00004	0.00004	0.00004
	B0	0.00044	0.00073	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00021	0.00022	0.00024
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A0 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

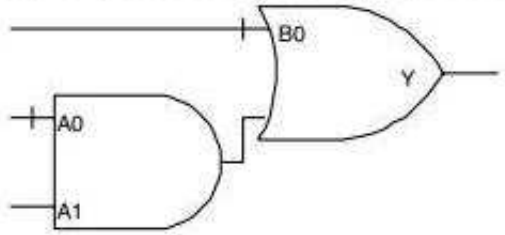
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00027	-0.00027	-0.00027

AO21X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1P4H7L	0.00066	0.00069	0.00078	0.07027

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1P4H7L	0.00000	1.74391	2.46160

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7L	A0->Y (RR)	0.03728	0.16783	0.48712
	A1->Y (RR)	0.03587	0.16720	0.48595
	B0->Y (RR)	0.02480	0.15010	0.45802

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7L	A0->Y (FF)	0.04938	0.16211	0.43515
	A1->Y (FF)	0.04577	0.15590	0.42751
	B0->Y (FF)	0.04510	0.15997	0.44389

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7L	A0	0.00044	0.00060	0.00123
	A0	0.00003	0.00003	0.00003
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00136	0.00152	0.00215
	A1	0.00045	0.00066	0.00147
	A1	0.00003	0.00003	0.00003
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00119	0.00140	0.00222
	B0	0.00042	0.00071	0.00172
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00112	0.00138	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7L	A0	0.00144	0.00160	0.00234
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00004	0.00004	0.00004
	A0	0.00051	0.00067	0.00140
	A1	0.00131	0.00149	0.00229
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00001	0.00001	0.00001
	A1	0.00054	0.00071	0.00152
	B0	0.00119	0.00145	0.00251
	B0	0.00001	0.00001	0.00002
	B0	0.00004	0.00004	0.00004
	B0	0.00048	0.00077	0.00193

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00021	0.00022	0.00024
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A0 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

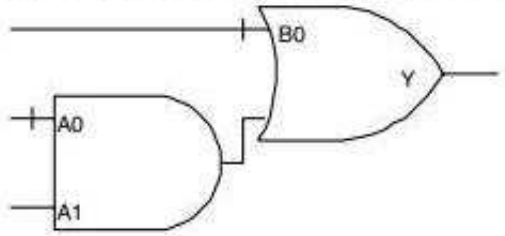
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00028	-0.00028	-0.00027

AO21X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X2H7L	0.00067	0.00069	0.00078	0.09095

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X2H7L	0.00000	2.28395	2.62823

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7L	A0->Y (RR)	0.04145	0.17552	0.50061
	A1->Y (RR)	0.04004	0.17524	0.50072
	B0->Y (RR)	0.02706	0.15582	0.46883

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7L	A0->Y (FF)	0.05564	0.17325	0.45407
	A1->Y (FF)	0.05223	0.16735	0.44623
	B0->Y (FF)	0.05137	0.17120	0.46190

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7L	A0	0.00065	0.00082	0.00158
	A0	0.00003	0.00003	0.00003
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00156	0.00173	0.00248
	A1	0.00065	0.00088	0.00187
	A1	0.00003	0.00003	0.00003
	A1	-0.00000	-0.00000	0.00002
	A1	0.00138	0.00162	0.00261
	B0	0.00062	0.00091	0.00206
	B0	-0.00002	-0.00001	-0.00001
	B0	-0.00000	-0.00000	0.00000
	B0	0.00131	0.00159	0.00270

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7L	A0	0.00173	0.00190	0.00284
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00081	0.00098	0.00191
	A1	0.00160	0.00178	0.00277
	A1	-0.00003	-0.00003	-0.00003
	A1	-0.00000	0.00000	0.00001
	A1	0.00084	0.00102	0.00201
	B0	0.00148	0.00174	0.00303
	B0	0.00001	0.00001	0.00002
	B0	0.00003	0.00003	0.00003
	B0	0.00077	0.00106	0.00242

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00021	0.00022	0.00024
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A0 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B0 falling (conditional):

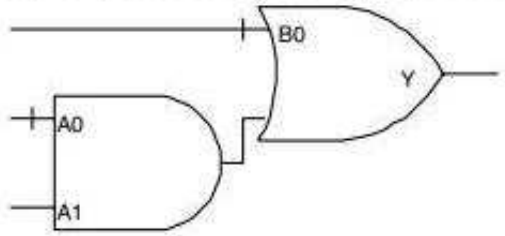
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00028	-0.00028	-0.00028

AO21X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X3H7L	0.00075	0.00077	0.00087	0.12867

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X3H7L	0.00000	2.73023	3.01941

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7L	A0->Y (RR)	0.03709	0.17101	0.49512
	A1->Y (RR)	0.03571	0.17052	0.49398
	B0->Y (RR)	0.02410	0.15280	0.46618

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7L	A0->Y (FF)	0.05155	0.16846	0.44693
	A1->Y (FF)	0.04805	0.16247	0.43858
	B0->Y (FF)	0.04742	0.16657	0.45440

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7L	A0	0.00080	0.00101	0.00199
	A0	0.00003	0.00003	0.00003
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00183	0.00204	0.00301
	A1	0.00081	0.00108	0.00236
	A1	0.00003	0.00003	0.00003
	A1	0.00000	0.00000	0.00000
	A1	0.00164	0.00192	0.00320
	B0	0.00077	0.00113	0.00260
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00000	0.00000	0.00002
	B0	0.00155	0.00190	0.00332

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7L	A0	0.00200	0.00224	0.00345
	A0	-0.00003	-0.00003	0.00002
	A0	0.00004	0.00004	0.00004
	A0	0.00097	0.00119	0.00240
	A1	0.00185	0.00209	0.00337
	A1	-0.00003	-0.00003	0.00001
	A1	-0.00000	-0.00000	0.00000
	A1	0.00100	0.00123	0.00251
	B0	0.00173	0.00206	0.00372
	B0	0.00000	0.00002	0.00006
	B0	0.00004	0.00004	0.00004
	B0	0.00089	0.00129	0.00302

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A1 * B0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00023	0.00024	0.00026
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A1 * B0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A0 * B0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00021	0.00022	0.00023
	(!A0 * B0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A0 * B0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

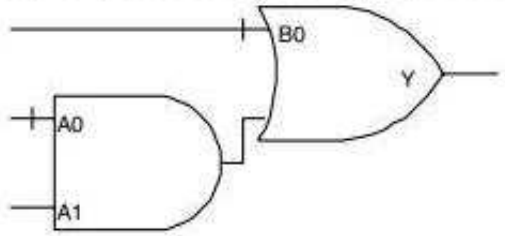
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00031	-0.00031	-0.00031

AO21X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X4H7L	0.00084	0.00093	0.00098	0.16522

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X4H7L	0.00000	3.28705	3.63078

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7L	A0->Y (RR)	0.03525	0.16889	0.49118
	A1->Y (RR)	0.03428	0.16874	0.49055
	B0->Y (RR)	0.02300	0.15149	0.46337

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7L	A0->Y (FF)	0.05040	0.16753	0.44526
	A1->Y (FF)	0.04743	0.16197	0.43775
	B0->Y (FF)	0.04666	0.16612	0.45304

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7L	A0	0.00098	0.00124	0.00246
	A0	0.00003	0.00003	0.00003
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00217	0.00243	0.00364
	A1	0.00099	0.00132	0.00292
	A1	0.00003	0.00003	0.00003
	A1	0.00001	0.00001	0.00001
	A1	0.00196	0.00229	0.00388
	B0	0.00094	0.00138	0.00319
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00000	0.00001	0.00001
	B0	0.00184	0.00227	0.00402

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7L	A0	0.00239	0.00265	0.00418
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00004	0.00004	0.00004
	A0	0.00119	0.00145	0.00298
	A1	0.00222	0.00250	0.00409
	A1	-0.00003	-0.00003	-0.00003
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00122	0.00150	0.00309
	B0	0.00206	0.00247	0.00453
	B0	0.00003	0.00003	0.00007
	B0	0.00004	0.00004	0.00004
	B0	0.00113	0.00159	0.00372

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A1 * B0 * Y)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00027	0.00029
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A1 * B0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A0 * B0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00025	0.00026	0.00028
	(!A0 * B0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A0 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * B0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

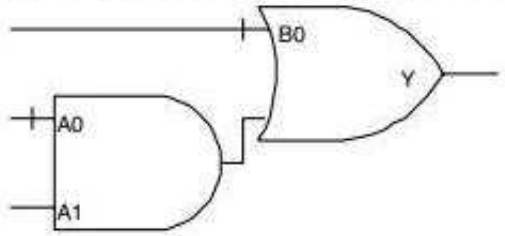
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00035	-0.00034	-0.00034

AO21X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X6H7L	0.00094	0.00099	0.00110	0.24837

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X6H7L	0.00000	4.58456	5.33404

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7L	A0->Y (RR)	0.03779	0.17430	0.50203
	A1->Y (RR)	0.03645	0.17417	0.50151
	B0->Y (RR)	0.02433	0.15591	0.47332

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7L	A0->Y (FF)	0.05450	0.17482	0.45761
	A1->Y (FF)	0.05111	0.16900	0.44964
	B0->Y (FF)	0.05104	0.17384	0.46519

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7L	A0	0.00156	0.00191	0.00367
	A0	0.00002	0.00002	0.00002
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00287	0.00321	0.00497
	A1	0.00157	0.00201	0.00432
	A1	0.00002	0.00002	0.00002
	A1	0.00002	0.00002	0.00003
	A1	0.00262	0.00306	0.00537
	B0	0.00151	0.00205	0.00452
	B0	-0.00006	-0.00006	-0.00002
	B0	0.00002	0.00002	0.00003
	B0	0.00250	0.00303	0.00546

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7L	A0	0.00317	0.00353	0.00578
	A0	-0.00002	-0.00002	-0.00000
	A0	0.00003	0.00003	0.00004
	A0	0.00180	0.00220	0.00446
	A1	0.00295	0.00332	0.00564
	A1	-0.00002	-0.00002	-0.00002
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00179	0.00223	0.00456
	B0	0.00280	0.00333	0.00631
	B0	0.00002	0.00006	0.00008
	B0	0.00003	0.00003	0.00004
	B0	0.00176	0.00234	0.00537

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A1 * B0 * Y)	-0.00018	-0.00016	-0.00013
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00029	0.00030	0.00032
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A1 * B0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	0.00023	0.00024	0.00026
	(!A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A0 * B0 * Y)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00028	0.00029	0.00030
	(!A0 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A0 * B0 * Y)	0.00018	0.00018	0.00019
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00039	0.00039	0.00040

Passive power(pJ) for B0 falling (conditional):

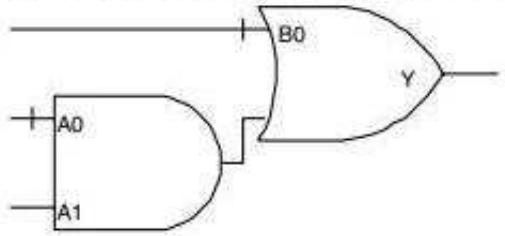
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00039	-0.00038	-0.00038

AO21X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
AO21X8H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X8H7L	0.00166	0.00172	0.00184	0.33108

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X8H7L	0.00000	6.57409	7.26158

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7L	A0->Y (RR)	0.03543	0.17030	0.49457
	A1->Y (RR)	0.03371	0.16980	0.49414
	B0->Y (RR)	0.02217	0.15227	0.46698

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7L	A0->Y (FF)	0.05108	0.16950	0.44886
	A1->Y (FF)	0.04674	0.16242	0.43918
	B0->Y (FF)	0.04659	0.16770	0.45675

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7L	A0	0.00195	0.00246	0.00497
	A0	0.00006	0.00006	0.00007
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00439	0.00489	0.00740
	A1	0.00195	0.00262	0.00593
	A1	0.00006	0.00006	0.00007
	A1	0.00001	0.00001	0.00001
	A1	0.00387	0.00455	0.00785
	B0	0.00188	0.00277	0.00649
	B0	-0.00007	-0.00006	-0.00003
	B0	0.00001	0.00001	0.00001
	B0	0.00378	0.00462	0.00828

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7L	A0	0.00495	0.00548	0.00861
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00008	0.00009	0.00009
	A0	0.00248	0.00300	0.00615
	A1	0.00451	0.00507	0.00833
	A1	-0.00007	-0.00006	-0.00003
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00248	0.00307	0.00635
	B0	0.00423	0.00505	0.00927
	B0	0.00003	0.00007	0.00014
	B0	0.00009	0.00009	0.00009
	B0	0.00227	0.00319	0.00756

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A1 * B0 * Y)	-0.00030	-0.00026	-0.00020
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00057	0.00058	0.00061
	(!A1 * B0 * Y)	-0.00036	-0.00036	-0.00036
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00051	0.00052	0.00052
	(!A1 * !B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00053	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A1 * B0 * Y)	0.00032	0.00032	0.00032
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * B0 * Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00051	-0.00049	-0.00048
	(!A1 * !B0 * !Y)	0.00038	0.00041	0.00044
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00050	-0.00047	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A0 * B0 * Y)	-0.00030	-0.00026	-0.00021
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00056	0.00057	0.00060
	(!A0 * B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * Y)	0.00050	0.00050	0.00050
	(!A0 * !B0 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !Y)	0.00012	0.00012	0.00013

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A0 * B0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00055	-0.00054	-0.00054
	(!A0 * B0 * Y)	0.00037	0.00038	0.00038
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * Y)	-0.00049	-0.00048	-0.00046
	(!A0 * !B0 * !Y)	0.00053	0.00053	0.00054
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00004	-0.00004	-0.00002
	(!A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00012

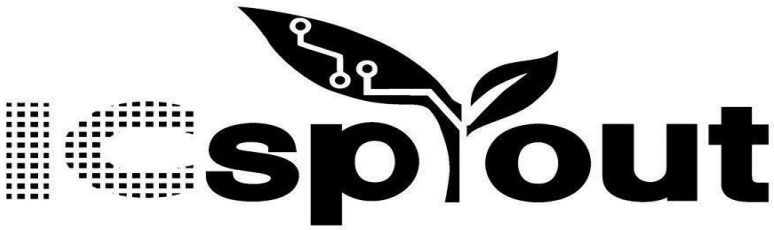
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00071	0.00071	0.00071

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7L	(A0 * A1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	-0.00070	-0.00070	-0.00069

AO221X0P5H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P5H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P5H7L	0.00065	0.00067	0.00069	0.00075	0.00075	0.04552

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P5H7L	0.00000	1.60779	3.49894

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7L	A0->Y (RR)	0.04870	0.18391	0.51039
	A1->Y (RR)	0.04746	0.18401	0.51106
	B0->Y (RR)	0.04596	0.17802	0.49782
	B1->Y (RR)	0.04495	0.17790	0.49795
	C0->Y (RR)	0.03039	0.15709	0.46593

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7L	A0->Y (FF)	0.08964	0.20754	0.48753
	A1->Y (FF)	0.08502	0.20048	0.47952
	B0->Y (FF)	0.08444	0.20747	0.50268
	B1->Y (FF)	0.08000	0.19985	0.49232
	C0->Y (FF)	0.07270	0.19750	0.50045

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7L	A0	0.00033	0.00045	0.00093
	A0	0.00009	0.00009	0.00009
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00173	0.00186	0.00234
	A1	0.00033	0.00049	0.00112
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00162	0.00179	0.00243
	B0	0.00032	0.00045	0.00095
	B0	0.00003	0.00004	0.00006
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00150	0.00164	0.00212
	B1	0.00034	0.00051	0.00116
	B1	0.00004	0.00004	0.00004
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00139	0.00156	0.00219
	C0	0.00031	0.00055	0.00138
	C0	-0.00000	0.00000	0.00001
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00129	0.00150	0.00225

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7L	A0	0.00203	0.00212	0.00259
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	0.00055	0.00065	0.00116
	A1	0.00190	0.00201	0.00252
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00006	0.00006	0.00008
	A1	0.00053	0.00065	0.00120
	B0	0.00175	0.00186	0.00242
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00010	0.00010	0.00010
	B0	0.00054	0.00067	0.00125
	B1	0.00161	0.00173	0.00231
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00006	0.00006	0.00007
	B1	0.00054	0.00068	0.00130
	C0	0.00145	0.00164	0.00245
	C0	-0.00000	0.00000	0.00001
	C0	0.00009	0.00010	0.00010
	C0	0.00047	0.00071	0.00164

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00021
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00011
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00017	0.00018	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003

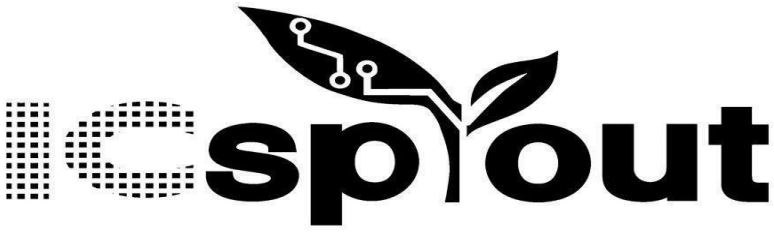
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026

AO221X0P7H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P7H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P7H7L	0.00065	0.00067	0.00069	0.00075	0.00075	0.05162

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P7H7L	0.00000	1.66270	3.51072

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7L	A0->Y (RR)	0.04813	0.18385	0.51098
	A1->Y (RR)	0.04687	0.18403	0.51175
	B0->Y (RR)	0.04539	0.17802	0.49878
	B1->Y (RR)	0.04437	0.17793	0.49848
	C0->Y (RR)	0.02971	0.15689	0.46592

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7L	A0->Y (FF)	0.08961	0.20772	0.48691
	A1->Y (FF)	0.08505	0.20069	0.47872
	B0->Y (FF)	0.08440	0.20771	0.50211
	B1->Y (FF)	0.08003	0.20014	0.49174
	C0->Y (FF)	0.07269	0.19780	0.50039

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7L	A0	0.00036	0.00048	0.00098
	A0	0.00009	0.00009	0.00009
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00176	0.00189	0.00239
	A1	0.00036	0.00052	0.00118
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00164	0.00181	0.00248
	B0	0.00034	0.00048	0.00100
	B0	0.00004	0.00004	0.00011
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00152	0.00166	0.00217
	B1	0.00037	0.00055	0.00122
	B1	0.00004	0.00004	0.00007
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00141	0.00158	0.00224
	C0	0.00034	0.00058	0.00143
	C0	-0.00000	-0.00000	0.00001
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00132	0.00153	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7L	A0	0.00205	0.00215	0.00265
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00009	0.00009	0.00011
	A0	0.00058	0.00068	0.00122
	A1	0.00193	0.00204	0.00257
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00006	0.00006	0.00007
	A1	0.00057	0.00068	0.00126
	B0	0.00178	0.00189	0.00248
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00058	0.00070	0.00132
	B1	0.00163	0.00176	0.00237
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00005	0.00006	0.00006
	B1	0.00056	0.00071	0.00136
	C0	0.00148	0.00168	0.00251
	C0	0.00000	0.00000	0.00002
	C0	0.00009	0.00009	0.00009
	C0	0.00050	0.00074	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00017	0.00018	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026

AO221X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1H7L	0.00065	0.00067	0.00069	0.00075	0.00075	0.06131

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1H7L	0.00000	1.75510	3.53163

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7L	A0->Y (RR)	0.04759	0.18420	0.51272
	A1->Y (RR)	0.04632	0.18443	0.51367
	B0->Y (RR)	0.04484	0.17839	0.50070
	B1->Y (RR)	0.04382	0.17834	0.50077
	C0->Y (RR)	0.02897	0.15693	0.46759

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7L	A0->Y (FF)	0.09013	0.21019	0.49213
	A1->Y (FF)	0.08565	0.20318	0.48409
	B0->Y (FF)	0.08492	0.21024	0.50789
	B1->Y (FF)	0.08063	0.20274	0.49747
	C0->Y (FF)	0.07324	0.20035	0.50584

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7L	A0	0.00040	0.00053	0.00106
	A0	0.00009	0.00009	0.00009
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00180	0.00193	0.00246
	A1	0.00041	0.00057	0.00127
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00003	-0.00000
	A1	0.00169	0.00186	0.00256
	B0	0.00038	0.00053	0.00108
	B0	0.00003	0.00004	0.00006
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00158	0.00170	0.00224
	B1	0.00042	0.00059	0.00131
	B1	0.00003	0.00003	0.00005
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00144	0.00162	0.00233
	C0	0.00038	0.00062	0.00151
	C0	-0.00001	-0.00001	0.00001
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00135	0.00157	0.00239

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7L	A0	0.00210	0.00220	0.00275
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00009	0.00009	0.00011
	A0	0.00063	0.00073	0.00131
	A1	0.00198	0.00208	0.00266
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00004	0.00006	0.00007
	A1	0.00062	0.00073	0.00135
	B0	0.00182	0.00194	0.00258
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00009	0.00009	0.00009
	B0	0.00062	0.00075	0.00142
	B1	0.00168	0.00181	0.00247
	B1	-0.00004	-0.00003	-0.00001
	B1	0.00006	0.00006	0.00008
	B1	0.00060	0.00076	0.00146
	C0	0.00152	0.00172	0.00262
	C0	0.00000	0.00001	0.00002
	C0	0.00009	0.00009	0.00009
	C0	0.00055	0.00079	0.00180

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00017	0.00018	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

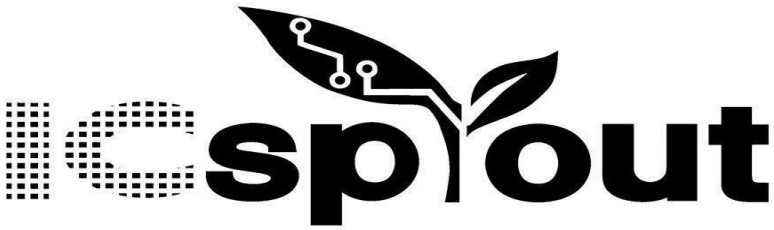
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00026

AO221X1P4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1P4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1P4H7L	0.00066	0.00067	0.00069	0.00075	0.00076	0.07022

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1P4H7L	0.00000	1.85831	3.55454

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7L	A0->Y (RR)	0.04777	0.18581	0.51715
	A1->Y (RR)	0.04650	0.18607	0.51829
	B0->Y (RR)	0.04497	0.18001	0.50515
	B1->Y (RR)	0.04400	0.18011	0.50551
	C0->Y (RR)	0.02878	0.15809	0.47048

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7L	A0->Y (FF)	0.09130	0.21246	0.49521
	A1->Y (FF)	0.08690	0.20553	0.48710
	B0->Y (FF)	0.08609	0.21263	0.51152
	B1->Y (FF)	0.08199	0.20527	0.50114
	C0->Y (FF)	0.07446	0.20278	0.50958

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7L	A0	0.00045	0.00057	0.00114
	A0	0.00008	0.00009	0.00009
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00185	0.00198	0.00254
	A1	0.00045	0.00062	0.00137
	A1	0.00008	0.00009	0.00009
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00173	0.00191	0.00265
	B0	0.00043	0.00058	0.00115
	B0	0.00001	0.00003	0.00005
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00162	0.00175	0.00232
	B1	0.00046	0.00064	0.00140
	B1	0.00003	0.00003	0.00005
	B1	-0.00002	-0.00002	-0.00000
	B1	0.00150	0.00167	0.00242
	C0	0.00042	0.00067	0.00159
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00139	0.00161	0.00247

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7L	A0	0.00215	0.00226	0.00286
	A0	-0.00009	-0.00009	-0.00007
	A0	0.00008	0.00009	0.00011
	A0	0.00069	0.00080	0.00141
	A1	0.00203	0.00214	0.00276
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00005	0.00006	0.00006
	A1	0.00067	0.00079	0.00145
	B0	0.00187	0.00200	0.00270
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00067	0.00081	0.00152
	B1	0.00173	0.00187	0.00258
	B1	-0.00005	-0.00003	-0.00003
	B1	0.00005	0.00006	0.00007
	B1	0.00062	0.00082	0.00156
	C0	0.00158	0.00179	0.00275
	C0	0.00000	0.00001	0.00003
	C0	0.00009	0.00009	0.00009
	C0	0.00059	0.00084	0.00191

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00015	0.00016	0.00016
	(!A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00017	0.00018	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00018	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A1 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

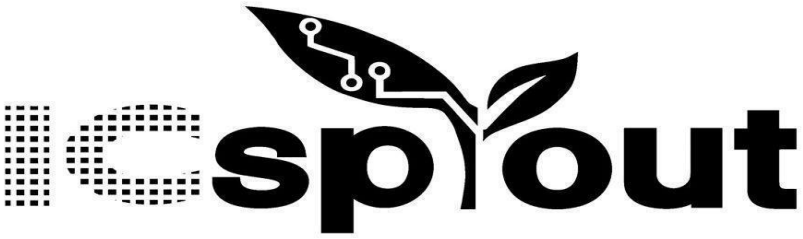
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00026

AO221X2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X2H7L	0.00074	0.00077	0.00073	0.00074	0.00075	0.09063

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X2H7L	0.00000	2.45437	3.72127

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7L	A0->Y (RR)	0.05294	0.19362	0.52911
	A1->Y (RR)	0.05182	0.19427	0.53129
	B0->Y (RR)	0.04947	0.18736	0.51671
	B1->Y (RR)	0.04818	0.18751	0.51748
	C0->Y (RR)	0.03124	0.16361	0.48080

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7L	A0->Y (FF)	0.10238	0.22772	0.51682
	A1->Y (FF)	0.09837	0.22107	0.50801
	B0->Y (FF)	0.09590	0.22704	0.53358
	B1->Y (FF)	0.09102	0.21968	0.52314
	C0->Y (FF)	0.08444	0.21757	0.53217

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7L	A0	0.00069	0.00083	0.00154
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00215	0.00229	0.00300
	A1	0.00069	0.00088	0.00182
	A1	0.00008	0.00008	0.00008
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00200	0.00219	0.00313
	B0	0.00071	0.00085	0.00157
	B0	0.00001	0.00003	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00192	0.00207	0.00278
	B1	0.00072	0.00091	0.00186
	B1	0.00003	0.00003	0.00004
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00175	0.00196	0.00291
	C0	0.00065	0.00092	0.00199
	C0	-0.00001	0.00001	0.00117
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00165	0.00190	0.00292

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7L	A0	0.00249	0.00264	0.00346
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00008	0.00008	0.00008
	A0	0.00092	0.00112	0.00195
	A1	0.00237	0.00252	0.00335
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00005	0.00005	0.00005
	A1	0.00092	0.00114	0.00199
	B0	0.00217	0.00235	0.00331
	B0	-0.00003	-0.00003	0.00001
	B0	0.00008	0.00008	0.00010
	B0	0.00089	0.00111	0.00208
	B1	0.00205	0.00222	0.00319
	B1	-0.00003	-0.00003	0.00000
	B1	0.00005	0.00005	0.00005
	B1	0.00092	0.00114	0.00212
	C0	0.00190	0.00216	0.00342
	C0	0.00000	0.00001	0.00004
	C0	0.00008	0.00008	0.00008
	C0	0.00087	0.00115	0.00245

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00020	0.00021	0.00023
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00020	0.00021	0.00023
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00017	0.00018	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00017	0.00018	0.00020
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002

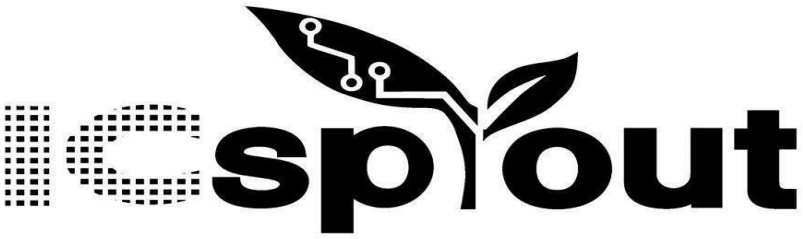
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00026

AO221X3H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X3H7L	0.00081	0.00084	0.00081	0.00084	0.00083	0.12842

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X3H7L	0.00000	2.94270	4.26928

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7L	A0->Y (RR)	0.04670	0.18729	0.52207
	A1->Y (RR)	0.04566	0.18780	0.52309
	B0->Y (RR)	0.04375	0.18160	0.51047
	B1->Y (RR)	0.04262	0.18171	0.51072
	C0->Y (RR)	0.02750	0.15975	0.47665

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7L	A0->Y (FF)	0.09426	0.21902	0.50576
	A1->Y (FF)	0.09031	0.21249	0.49735
	B0->Y (FF)	0.08826	0.21917	0.52300
	B1->Y (FF)	0.08413	0.21196	0.51256
	C0->Y (FF)	0.07762	0.21027	0.52149

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7L	A0	0.00082	0.00101	0.00192
	A0	0.00010	0.00010	0.00010
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00249	0.00267	0.00359
	A1	0.00083	0.00106	0.00229
	A1	0.00010	0.00010	0.00010
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00232	0.00255	0.00378
	B0	0.00084	0.00102	0.00196
	B0	0.00003	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00223	0.00241	0.00335
	B1	0.00086	0.00110	0.00233
	B1	0.00003	0.00003	0.00006
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00205	0.00229	0.00353
	C0	0.00078	0.00111	0.00249
	C0	-0.00002	-0.00002	0.00006
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00191	0.00222	0.00355

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7L	A0	0.00288	0.00308	0.00417
	A0	-0.00010	-0.00010	-0.00006
	A0	0.00010	0.00010	0.00010
	A0	0.00107	0.00134	0.00244
	A1	0.00274	0.00294	0.00404
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00006	0.00006	0.00006
	A1	0.00110	0.00136	0.00249
	B0	0.00253	0.00276	0.00402
	B0	-0.00003	-0.00003	0.00001
	B0	0.00009	0.00010	0.00011
	B0	0.00100	0.00135	0.00262
	B1	0.00236	0.00259	0.00387
	B1	-0.00003	-0.00003	-0.00000
	B1	0.00005	0.00006	0.00007
	B1	0.00111	0.00136	0.00265
	C0	0.00221	0.00253	0.00417
	C0	0.00000	0.00003	0.00007
	C0	0.00010	0.00010	0.00010
	C0	0.00105	0.00139	0.00307

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B1 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * B1 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C0 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00002	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00021	0.00022	0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00021	0.00022	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00001	0.00003
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00003	0.00021
	(A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00022	0.00022	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00024
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

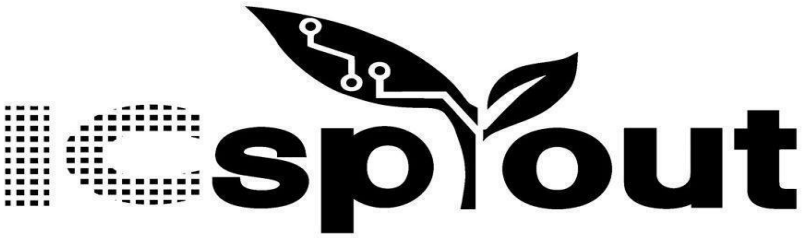
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00030	-0.00030	-0.00030

AO221X4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X4H7L	0.00092	0.00095	0.00092	0.00093	0.00097	0.16514

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X4H7L	0.00000	3.54916	4.96050

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7L	A0->Y (RR)	0.04444	0.18414	0.51636
	A1->Y (RR)	0.04312	0.18432	0.51666
	B0->Y (RR)	0.04164	0.17860	0.50505
	B1->Y (RR)	0.04034	0.17849	0.50456
	C0->Y (RR)	0.02642	0.15801	0.47434

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7L	A0->Y (FF)	0.09231	0.21666	0.50242
	A1->Y (FF)	0.08766	0.20958	0.49353
	B0->Y (FF)	0.08654	0.21702	0.51952
	B1->Y (FF)	0.08174	0.20947	0.50891
	C0->Y (FF)	0.07648	0.20876	0.51875

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7L	A0	0.00108	0.00130	0.00244
	A0	0.00011	0.00012	0.00012
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00298	0.00319	0.00433
	A1	0.00108	0.00137	0.00289
	A1	0.00012	0.00012	0.00012
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00277	0.00306	0.00458
	B0	0.00110	0.00132	0.00249
	B0	0.00003	0.00003	0.00003
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00266	0.00288	0.00405
	B1	0.00110	0.00140	0.00295
	B1	0.00003	0.00003	0.00006
	B1	-0.00002	-0.00002	0.00000
	B1	0.00242	0.00274	0.00428
	C0	0.00104	0.00144	0.00314
	C0	-0.00003	-0.00003	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00230	0.00270	0.00434

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7L	A0	0.00337	0.00361	0.00499
	A0	-0.00011	-0.00011	-0.00009
	A0	0.00012	0.00012	0.00012
	A0	0.00131	0.00164	0.00303
	A1	0.00319	0.00343	0.00482
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00007	0.00007	0.00007
	A1	0.00133	0.00165	0.00307
	B0	0.00296	0.00324	0.00484
	B0	-0.00003	-0.00003	0.00001
	B0	0.00011	0.00012	0.00012
	B0	0.00128	0.00165	0.00326
	B1	0.00278	0.00305	0.00467
	B1	-0.00004	-0.00003	0.00001
	B1	0.00007	0.00007	0.00010
	B1	0.00132	0.00167	0.00331
	C0	0.00258	0.00298	0.00503
	C0	0.00000	0.00003	0.00009
	C0	0.00012	0.00012	0.00012
	C0	0.00126	0.00169	0.00378

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00014	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00016
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B1 * C0 * Y)	0.00014	0.00015	0.00015
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * C0 * Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * B0 * B1 * C0 * Y)**	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !B0 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * B0 * B1 * C0 * Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00025	0.00025	0.00026
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * Y)	-0.00019	-0.00017	-0.00013
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00024	0.00025	0.00028
	(!A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00017	-0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00024	0.00025	0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00002	0.00004	0.00007
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00003	0.00024
	(A0 * A1 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B1 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * !Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00018
	(!A0 * A1 * B1 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00023	0.00025
	(!A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7L	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7L	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00036	-0.00036	-0.00036

AO222X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P5H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P5H7L	0.00076	0.00075	0.00070	0.00071	0.00067	0.00080	0.04523

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P5H7L	0.00000	1.62373	3.50116

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7L	A0->Y (RR)	0.05633	0.19415	0.52587
	A1->Y (RR)	0.05465	0.19434	0.52709
	B0->Y (RR)	0.05256	0.18771	0.51330
	B1->Y (RR)	0.05101	0.18765	0.51368
	C0->Y (RR)	0.04669	0.17864	0.49837
	C1->Y (RR)	0.04652	0.17964	0.49986

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7L	A0->Y (FF)	0.10618	0.22712	0.51056
	A1->Y (FF)	0.10087	0.21955	0.50138
	B0->Y (FF)	0.09888	0.22544	0.52568
	B1->Y (FF)	0.09391	0.21816	0.51556
	C0->Y (FF)	0.08206	0.21066	0.51644
	C1->Y (FF)	0.08021	0.20564	0.50821

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7L	A0	0.00038	0.00049	0.00095
	A0	0.00012	0.00013	0.00013
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00217	0.00229	0.00275
	A1	0.00038	0.00054	0.00116
	A1	0.00012	0.00012	0.00015
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00201	0.00216	0.00279
	B0	0.00039	0.00053	0.00102
	B0	0.00006	0.00007	0.00010
	B0	-0.00007	-0.00006	-0.00004
	B0	0.00188	0.00201	0.00249
	B1	0.00037	0.00055	0.00120
	B1	0.00000	0.00007	0.00037
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00175	0.00191	0.00254
	C0	0.00040	0.00057	0.00117
	C0	0.00001	0.00002	0.00003
	C0	-0.00007	-0.00006	-0.00006
	C0	0.00161	0.00177	0.00232
	C1	0.00040	0.00060	0.00135
	C1	0.00001	0.00002	0.00006
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00154	0.00172	0.00241

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7L	A0	0.00241	0.00250	0.00294
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00013	0.00013	0.00013
	A0	0.00053	0.00063	0.00112
	A1	0.00227	0.00237	0.00283
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00010	0.00010	0.00011
	A1	0.00055	0.00067	0.00120
	B0	0.00207	0.00218	0.00271
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00013	0.00013	0.00013
	B0	0.00055	0.00067	0.00126
	B1	0.00198	0.00208	0.00263
	B1	-0.00007	-0.00006	0.00000
	B1	0.00009	0.00010	0.00010
	B1	0.00057	0.00071	0.00133
	C0	0.00170	0.00187	0.00264
	C0	-0.00002	-0.00001	0.00000
	C0	0.00013	0.00013	0.00013
	C0	0.00048	0.00069	0.00152
	C1	0.00162	0.00179	0.00255
	C1	-0.00002	-0.00001	0.00000
	C1	0.00009	0.00010	0.00011
	C1	0.00047	0.00069	0.00155

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00005
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

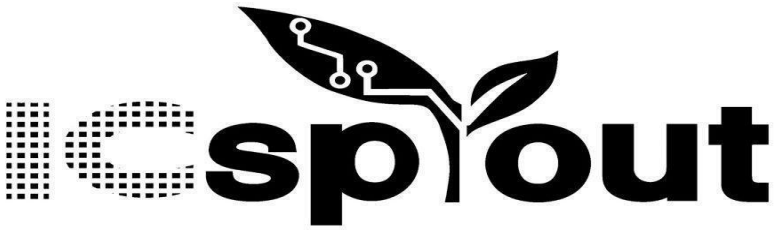
AO222X0P5H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003

AO222X0P7H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P7H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P7H7L	0.00077	0.00075	0.00070	0.00071	0.00067	0.00080	0.05143

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P7H7L	0.00000	1.67020	3.51295

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7L	A0->Y (RR)	0.05567	0.19435	0.52744
	A1->Y (RR)	0.05396	0.19457	0.52937
	B0->Y (RR)	0.05186	0.18788	0.51494
	B1->Y (RR)	0.05032	0.18788	0.51556
	C0->Y (RR)	0.04599	0.17885	0.50037
	C1->Y (RR)	0.04582	0.17989	0.50210

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7L	A0->Y (FF)	0.10614	0.22752	0.51054
	A1->Y (FF)	0.10080	0.21991	0.50126
	B0->Y (FF)	0.09874	0.22581	0.52563
	B1->Y (FF)	0.09379	0.21856	0.51571
	C0->Y (FF)	0.08192	0.21107	0.51694
	C1->Y (FF)	0.08014	0.20605	0.50784

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7L	A0	0.00041	0.00052	0.00101
	A0	0.00012	0.00012	0.00013
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00220	0.00232	0.00280
	A1	0.00041	0.00056	0.00122
	A1	0.00011	0.00012	0.00015
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00202	0.00219	0.00285
	B0	0.00043	0.00056	0.00107
	B0	0.00007	0.00007	0.00010
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00192	0.00204	0.00254
	B1	0.00041	0.00058	0.00125
	B1	0.00007	0.00007	0.00009
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00177	0.00194	0.00260
	C0	0.00043	0.00060	0.00122
	C0	0.00001	0.00001	0.00004
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00165	0.00180	0.00237
	C1	0.00043	0.00063	0.00141
	C1	0.00001	0.00002	0.00005
	C1	-0.00003	-0.00003	-0.00001
	C1	0.00157	0.00175	0.00248

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7L	A0	0.00244	0.00253	0.00300
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00013	0.00013	0.00014
	A0	0.00055	0.00066	0.00118
	A1	0.00230	0.00240	0.00289
	A1	-0.00012	-0.00012	-0.00009
	A1	0.00009	0.00009	0.00010
	A1	0.00057	0.00071	0.00126
	B0	0.00210	0.00221	0.00278
	B0	-0.00007	-0.00007	-0.00004
	B0	0.00012	0.00013	0.00014
	B0	0.00058	0.00071	0.00133
	B1	0.00201	0.00212	0.00270
	B1	-0.00007	-0.00006	0.00000
	B1	0.00009	0.00009	0.00009
	B1	0.00060	0.00074	0.00139
	C0	0.00173	0.00191	0.00271
	C0	-0.00001	-0.00001	0.00001
	C0	0.00012	0.00013	0.00013
	C0	0.00052	0.00072	0.00159
	C1	0.00165	0.00183	0.00263
	C1	-0.00001	-0.00001	-0.00000
	C1	0.00008	0.00009	0.00010
	C1	0.00050	0.00072	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00011
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00016

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00029	0.00029	0.00030
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003

AO222X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1H7L	0.00077	0.00075	0.00070	0.00071	0.00067	0.00080	0.06106

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1H7L	0.00000	1.74860	3.53385

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7L	A0->Y (RR)	0.05496	0.19448	0.52869
	A1->Y (RR)	0.05325	0.19479	0.53087
	B0->Y (RR)	0.05115	0.18806	0.51647
	B1->Y (RR)	0.04961	0.18811	0.51770
	C0->Y (RR)	0.04528	0.17907	0.50153
	C1->Y (RR)	0.04508	0.18015	0.50379

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7L	A0->Y (FF)	0.10651	0.22985	0.51586
	A1->Y (FF)	0.10123	0.22230	0.50678
	B0->Y (FF)	0.09911	0.22821	0.53107
	B1->Y (FF)	0.09425	0.22103	0.52127
	C0->Y (FF)	0.08231	0.21348	0.52271
	C1->Y (FF)	0.08061	0.20855	0.51391

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7L	A0	0.00045	0.00057	0.00109
	A0	0.00012	0.00012	0.00012
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00225	0.00237	0.00289
	A1	0.00046	0.00062	0.00132
	A1	0.00012	0.00012	0.00012
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00208	0.00224	0.00294
	B0	0.00048	0.00061	0.00115
	B0	0.00007	0.00007	0.00009
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00197	0.00209	0.00262
	B1	0.00045	0.00063	0.00135
	B1	0.00004	0.00006	0.00009
	B1	-0.00003	-0.00003	-0.00001
	B1	0.00182	0.00198	0.00269
	C0	0.00047	0.00065	0.00130
	C0	0.00001	0.00001	0.00005
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00170	0.00184	0.00246
	C1	0.00048	0.00069	0.00151
	C1	0.00001	0.00002	0.00005
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00161	0.00180	0.00257

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7L	A0	0.00249	0.00258	0.00310
	A0	-0.00012	-0.00012	-0.00010
	A0	0.00011	0.00012	0.00014
	A0	0.00060	0.00071	0.00127
	A1	0.00235	0.00245	0.00298
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00009	0.00009	0.00010
	A1	0.00064	0.00076	0.00135
	B0	0.00215	0.00226	0.00289
	B0	-0.00007	-0.00006	-0.00004
	B0	0.00012	0.00012	0.00014
	B0	0.00063	0.00076	0.00143
	B1	0.00205	0.00217	0.00280
	B1	-0.00007	-0.00006	-0.00004
	B1	0.00009	0.00009	0.00009
	B1	0.00064	0.00079	0.00149
	C0	0.00177	0.00196	0.00283
	C0	-0.00001	-0.00001	0.00002
	C0	0.00012	0.00012	0.00012
	C0	0.00057	0.00077	0.00170
	C1	0.00169	0.00188	0.00275
	C1	-0.00001	-0.00001	0.00001
	C1	0.00009	0.00009	0.00009
	C1	0.00056	0.00077	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00011
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7L	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003

AO222X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1P4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1P4H7L	0.00077	0.00075	0.00070	0.00071	0.00067	0.00080	0.06963

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1P4H7L	0.00000	1.83610	3.55676

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7L	A0->Y (RR)	0.05405	0.19422	0.52913
	A1->Y (RR)	0.05239	0.19457	0.53171
	B0->Y (RR)	0.05030	0.18785	0.51728
	B1->Y (RR)	0.04879	0.18789	0.51812
	C0->Y (RR)	0.04444	0.17886	0.50242
	C1->Y (RR)	0.04428	0.17996	0.50408

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7L	A0->Y (FF)	0.10588	0.22967	0.51512
	A1->Y (FF)	0.10075	0.22219	0.50573
	B0->Y (FF)	0.09856	0.22812	0.53051
	B1->Y (FF)	0.09378	0.22097	0.52074
	C0->Y (FF)	0.08176	0.21338	0.52246
	C1->Y (FF)	0.08013	0.20846	0.51291

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7L	A0	0.00048	0.00060	0.00116
	A0	0.00011	0.00011	0.00013
	A0	-0.00006	-0.00006	-0.00002
	A0	0.00227	0.00239	0.00295
	A1	0.00049	0.00065	0.00140
	A1	0.00009	0.00011	0.00014
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00209	0.00226	0.00302
	B0	0.00050	0.00063	0.00122
	B0	0.00006	0.00006	0.00009
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00199	0.00211	0.00268
	B1	0.00048	0.00066	0.00143
	B1	0.00006	0.00007	0.00039
	B1	-0.00003	-0.00002	-0.00000
	B1	0.00184	0.00201	0.00277
	C0	0.00051	0.00067	0.00136
	C0	-0.00001	0.00001	0.00003
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00172	0.00186	0.00252
	C1	0.00051	0.00071	0.00158
	C1	0.00000	0.00001	0.00005
	C1	-0.00003	-0.00002	-0.00001
	C1	0.00163	0.00182	0.00264

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7L	A0	0.00250	0.00261	0.00317
	A0	-0.00011	-0.00011	-0.00009
	A0	0.00009	0.00012	0.00012
	A0	0.00062	0.00074	0.00135
	A1	0.00237	0.00248	0.00306
	A1	-0.00012	-0.00011	-0.00009
	A1	0.00007	0.00009	0.00009
	A1	0.00067	0.00079	0.00143
	B0	0.00216	0.00229	0.00297
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00010	0.00012	0.00014
	B0	0.00066	0.00079	0.00151
	B1	0.00207	0.00219	0.00288
	B1	-0.00006	-0.00006	-0.00003
	B1	0.00009	0.00009	0.00009
	B1	0.00067	0.00082	0.00157
	C0	0.00179	0.00199	0.00293
	C0	-0.00001	-0.00001	0.00002
	C0	0.00012	0.00012	0.00012
	C0	0.00059	0.00080	0.00178
	C1	0.00171	0.00190	0.00284
	C1	-0.00001	-0.00001	0.00001
	C1	0.00007	0.00009	0.00009
	C1	0.00058	0.00080	0.00181

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * B0 * B1 * !C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00021	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00005
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00014
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00016

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X2H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X2H7L	0.00075	0.00073	0.00074	0.00069	0.00075	0.00082	0.08248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X2H7L	0.00000	1.98642	3.59895

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7L	A0->Y (RR)	0.05462	0.19628	0.53369
	A1->Y (RR)	0.05310	0.19681	0.53637
	B0->Y (RR)	0.05119	0.19035	0.52235
	B1->Y (RR)	0.04940	0.19037	0.52334
	C0->Y (RR)	0.04550	0.18157	0.50783
	C1->Y (RR)	0.04520	0.18262	0.50970

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7L	A0->Y (FF)	0.10763	0.23239	0.51714
	A1->Y (FF)	0.10300	0.22520	0.50787
	B0->Y (FF)	0.10124	0.23170	0.53357
	B1->Y (FF)	0.09607	0.22422	0.52363
	C0->Y (FF)	0.08435	0.21678	0.52582
	C1->Y (FF)	0.08212	0.21143	0.51644

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7L	A0	0.00057	0.00070	0.00133
	A0	0.00011	0.00011	0.00011
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00231	0.00245	0.00308
	A1	0.00058	0.00075	0.00159
	A1	0.00010	0.00011	0.00013
	A1	-0.00002	-0.00002	0.00001
	A1	0.00216	0.00233	0.00317
	B0	0.00059	0.00074	0.00138
	B0	0.00002	0.00006	0.00009
	B0	-0.00009	-0.00008	-0.00004
	B0	0.00207	0.00220	0.00283
	B1	0.00056	0.00077	0.00162
	B1	0.00005	0.00006	0.00009
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00188	0.00209	0.00293
	C0	0.00061	0.00078	0.00152
	C0	0.00000	0.00000	0.00006
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00183	0.00198	0.00270
	C1	0.00062	0.00083	0.00177
	C1	0.00000	0.00000	0.00006
	C1	-0.00002	-0.00002	0.00000
	C1	0.00173	0.00193	0.00283

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7L	A0	0.00259	0.00271	0.00337
	A0	-0.00011	-0.00011	-0.00009
	A0	0.00010	0.00012	0.00012
	A0	0.00076	0.00090	0.00156
	A1	0.00246	0.00258	0.00325
	A1	-0.00011	-0.00011	-0.00009
	A1	0.00008	0.00008	0.00008
	A1	0.00078	0.00091	0.00163
	B0	0.00226	0.00241	0.00319
	B0	-0.00007	-0.00006	-0.00002
	B0	0.00009	0.00012	0.00014
	B0	0.00077	0.00092	0.00173
	B1	0.00215	0.00230	0.00308
	B1	-0.00006	-0.00005	-0.00003
	B1	0.00005	0.00005	0.00010
	B1	0.00080	0.00095	0.00178
	C0	0.00188	0.00210	0.00315
	C0	-0.00000	-0.00000	0.00003
	C0	0.00011	0.00011	0.00012
	C0	0.00067	0.00089	0.00197
	C1	0.00179	0.00200	0.00305
	C1	-0.00000	-0.00000	0.00003
	C1	0.00007	0.00008	0.00008
	C1	0.00065	0.00090	0.00200

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X3H7L	0.00087	0.00085	0.00081	0.00078	0.00080	0.00090	0.12751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X3H7L	0.00000	2.80037	4.27232

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7L	A0->Y (RR)	0.05221	0.19506	0.53401
	A1->Y (RR)	0.05045	0.19531	0.53600
	B0->Y (RR)	0.04850	0.18902	0.52231
	B1->Y (RR)	0.04685	0.18915	0.52343
	C0->Y (RR)	0.04333	0.18109	0.50934
	C1->Y (RR)	0.04283	0.18197	0.51087

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7L	A0->Y (FF)	0.10787	0.23550	0.52499
	A1->Y (FF)	0.10250	0.22783	0.51554
	B0->Y (FF)	0.10057	0.23456	0.54235
	B1->Y (FF)	0.09571	0.22728	0.53163
	C0->Y (FF)	0.08506	0.22088	0.53455
	C1->Y (FF)	0.08277	0.21559	0.52578

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7L	A0	0.00086	0.00104	0.00197
	A0	0.00014	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00005
	A0	0.00290	0.00310	0.00404
	A1	0.00087	0.00111	0.00235
	A1	0.00014	0.00014	0.00014
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00273	0.00297	0.00421
	B0	0.00086	0.00108	0.00203
	B0	0.00003	0.00007	0.00011
	B0	-0.00006	-0.00006	-0.00000
	B0	0.00257	0.00279	0.00375
	B1	0.00088	0.00112	0.00238
	B1	0.00002	0.00007	0.00010
	B1	-0.00002	-0.00002	0.00003
	B1	0.00241	0.00265	0.00392
	C0	0.00092	0.00112	0.00218
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00232	0.00252	0.00358
	C1	0.00090	0.00118	0.00254
	C1	-0.00000	-0.00000	0.00002
	C1	-0.00002	-0.00002	-0.00000
	C1	0.00217	0.00246	0.00381

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7L	A0	0.00331	0.00352	0.00457
	A0	-0.00013	-0.00013	-0.00010
	A0	0.00010	0.00014	0.00015
	A0	0.00109	0.00138	0.00244
	A1	0.00314	0.00333	0.00440
	A1	-0.00013	-0.00013	-0.00010
	A1	0.00010	0.00010	0.00012
	A1	0.00107	0.00139	0.00247
	B0	0.00291	0.00314	0.00440
	B0	-0.00007	-0.00006	-0.00003
	B0	0.00010	0.00014	0.00017
	B0	0.00114	0.00141	0.00268
	B1	0.00277	0.00300	0.00426
	B1	-0.00007	-0.00006	-0.00002
	B1	0.00008	0.00010	0.00012
	B1	0.00119	0.00141	0.00272
	C0	0.00247	0.00280	0.00443
	C0	0.00000	0.00000	0.00003
	C0	0.00014	0.00014	0.00014
	C0	0.00104	0.00141	0.00306
	C1	0.00236	0.00267	0.00430
	C1	0.00000	0.00000	0.00004
	C1	0.00010	0.00010	0.00011
	C1	0.00106	0.00140	0.00304

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * B1 * !C1 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00027	0.00028	0.00028
	(A1 * !B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00013	0.00014
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * B1 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B1 * C0 * C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(!A1 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X4H7L	0.00096	0.00095	0.00091	0.00088	0.00090	0.00100	0.16472

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X4H7L	0.00000	3.36326	4.96436

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7L	A0->Y (RR)	0.04938	0.19205	0.53001
	A1->Y (RR)	0.04773	0.19229	0.53172
	B0->Y (RR)	0.04600	0.18621	0.51872
	B1->Y (RR)	0.04442	0.18629	0.51885
	C0->Y (RR)	0.04108	0.17854	0.50612
	C1->Y (RR)	0.04042	0.17924	0.50702

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7L	A0->Y (FF)	0.10515	0.23303	0.52262
	A1->Y (FF)	0.09973	0.22537	0.51309
	B0->Y (FF)	0.09831	0.23240	0.54025
	B1->Y (FF)	0.09353	0.22517	0.52954
	C0->Y (FF)	0.08345	0.21938	0.53244
	C1->Y (FF)	0.08072	0.21371	0.52340

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7L	A0	0.00111	0.00131	0.00248
	A0	0.00016	0.00016	0.00017
	A0	-0.00007	-0.00007	-0.00001
	A0	0.00336	0.00364	0.00480
	A1	0.00111	0.00140	0.00295
	A1	0.00017	0.00017	0.00017
	A1	-0.00002	-0.00002	0.00005
	A1	0.00316	0.00349	0.00504
	B0	0.00111	0.00134	0.00253
	B0	0.00008	0.00008	0.00012
	B0	-0.00007	-0.00007	-0.00002
	B0	0.00305	0.00327	0.00446
	B1	0.00111	0.00140	0.00297
	B1	0.00008	0.00008	0.00010
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00276	0.00311	0.00469
	C0	0.00115	0.00140	0.00271
	C0	-0.00001	-0.00001	0.00002
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00270	0.00296	0.00428
	C1	0.00115	0.00148	0.00316
	C1	-0.00001	-0.00001	0.00001
	C1	-0.00002	-0.00002	-0.00000
	C1	0.00255	0.00287	0.00456

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7L	A0	0.00387	0.00412	0.00547
	A0	-0.00016	-0.00016	-0.00011
	A0	0.00017	0.00017	0.00020
	A0	0.00137	0.00171	0.00307
	A1	0.00367	0.00391	0.00526
	A1	-0.00016	-0.00016	-0.00010
	A1	0.00011	0.00012	0.00013
	A1	0.00130	0.00172	0.00309
	B0	0.00341	0.00371	0.00530
	B0	-0.00010	-0.00008	-0.00003
	B0	0.00011	0.00017	0.00017
	B0	0.00143	0.00176	0.00336
	B1	0.00325	0.00353	0.00513
	B1	-0.00008	-0.00008	-0.00004
	B1	0.00012	0.00012	0.00015
	B1	0.00146	0.00175	0.00340
	C0	0.00291	0.00331	0.00536
	C0	0.00000	0.00001	0.00007
	C0	0.00017	0.00017	0.00017
	C0	0.00136	0.00176	0.00382
	C1	0.00276	0.00315	0.00519
	C1	0.00001	0.00001	0.00005
	C1	0.00012	0.00012	0.00012
	C1	0.00132	0.00175	0.00381

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * B1 * !C1 * Y)	0.00015	0.00016	0.00016
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00017
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00019	0.00020
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00014	-0.00013	-0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00013	-0.00010
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00013	-0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00030
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00016
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B1 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00026	0.00027	0.00028
	(!A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B1 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00017	-0.00013
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00021	0.00022	0.00024
	(!A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00017	-0.00014
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00021	0.00022	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00037	0.00037	0.00037
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(!A1 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

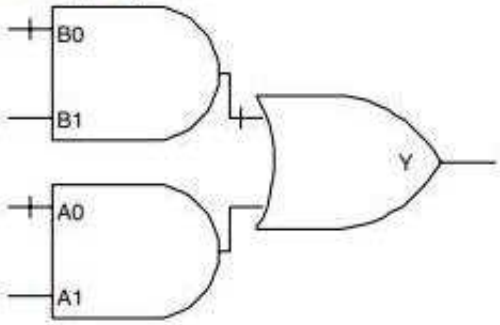
AO222X4H7L	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00037	-0.00037	-0.00037
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004

AO22X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P5H7L	0.00065	0.00074	0.00078	0.00079	0.04523

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P5H7L	0.00000	1.41261	2.40825

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7L	A0->Y (RR)	0.04521	0.17738	0.49950
	A1->Y (RR)	0.04476	0.17800	0.50058
	B0->Y (RR)	0.04093	0.16889	0.48503
	B1->Y (RR)	0.03969	0.16874	0.48602

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7L	A0->Y (FF)	0.05993	0.17458	0.45076
	A1->Y (FF)	0.05739	0.16975	0.44431
	B0->Y (FF)	0.05332	0.16859	0.44945
	B1->Y (FF)	0.04976	0.16290	0.44175

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7L	A0	0.00037	0.00052	0.00105
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00161	0.00176	0.00230
	A1	0.00036	0.00055	0.00125
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00146	0.00165	0.00234
	B0	0.00037	0.00056	0.00122
	B0	0.00001	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00137	0.00154	0.00218
	B1	0.00039	0.00062	0.00145
	B1	0.00001	0.00002	0.00003
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00122	0.00144	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7L	A0	0.00173	0.00186	0.00244
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00008	0.00008	0.00008
	A0	0.00045	0.00059	0.00122
	A1	0.00164	0.00178	0.00241
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00004	0.00005	0.00006
	A1	0.00050	0.00066	0.00134
	B0	0.00136	0.00156	0.00238
	B0	-0.00002	-0.00002	0.00000
	B0	0.00008	0.00008	0.00008
	B0	0.00036	0.00059	0.00147
	B1	0.00123	0.00145	0.00232
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00005	0.00005	0.00005
	B1	0.00040	0.00065	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A1 * B0 * B1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00023	0.00024	0.00026
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A1 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00017	-0.00016	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

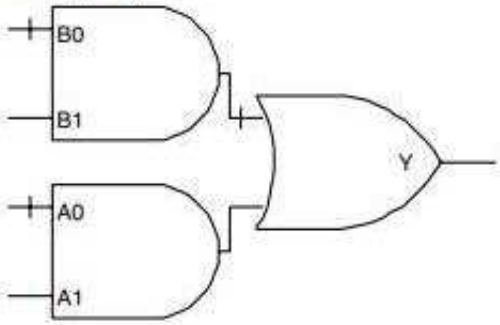
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P7H7L	0.00065	0.00074	0.00077	0.00079	0.05147

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P7H7L	0.00000	1.45065	2.42003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7L	A0->Y (RR)	0.04478	0.17802	0.50179
	A1->Y (RR)	0.04435	0.17868	0.50302
	B0->Y (RR)	0.04046	0.16941	0.48627
	B1->Y (RR)	0.03916	0.16928	0.48737

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7L	A0->Y (FF)	0.05998	0.17506	0.45109
	A1->Y (FF)	0.05749	0.17026	0.44462
	B0->Y (FF)	0.05321	0.16899	0.44981
	B1->Y (FF)	0.04971	0.16328	0.44214

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7L	A0	0.00040	0.00055	0.00110
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00164	0.00179	0.00234
	A1	0.00039	0.00058	0.00130
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	-0.00002	0.00001
	A1	0.00147	0.00168	0.00239
	B0	0.00040	0.00059	0.00127
	B0	0.00001	0.00001	0.00002
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00139	0.00157	0.00222
	B1	0.00042	0.00064	0.00150
	B1	0.00001	0.00002	0.00003
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00125	0.00146	0.00227

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7L	A0	0.00176	0.00190	0.00251
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00008	0.00008	0.00008
	A0	0.00049	0.00064	0.00128
	A1	0.00168	0.00182	0.00247
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00005	0.00005	0.00010
	A1	0.00054	0.00070	0.00141
	B0	0.00139	0.00160	0.00245
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00040	0.00063	0.00154
	B1	0.00127	0.00149	0.00239
	B1	-0.00001	-0.00001	0.00000
	B1	0.00002	0.00005	0.00005
	B1	0.00044	0.00068	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A1 * B0 * B1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00024	0.00024	0.00026
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A1 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

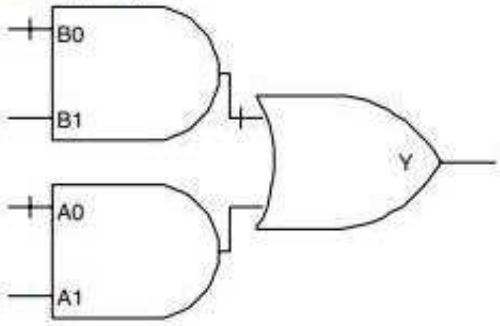
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1H7L	0.00066	0.00075	0.00077	0.00079	0.06105

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1H7L	0.00000	1.51506	2.44092

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7L	A0->Y (RR)	0.04397	0.17780	0.50219
	A1->Y (RR)	0.04349	0.17850	0.50376
	B0->Y (RR)	0.03958	0.16920	0.48727
	B1->Y (RR)	0.03831	0.16915	0.48807

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7L	A0->Y (FF)	0.05981	0.17639	0.45492
	A1->Y (FF)	0.05734	0.17160	0.44839
	B0->Y (FF)	0.05299	0.17031	0.45379
	B1->Y (FF)	0.04955	0.16467	0.44611

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7L	A0	0.00044	0.00059	0.00117
	A0	0.00007	0.00007	0.00007
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00168	0.00182	0.00241
	A1	0.00043	0.00063	0.00139
	A1	0.00007	0.00007	0.00007
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00152	0.00171	0.00247
	B0	0.00044	0.00063	0.00134
	B0	0.00001	0.00001	0.00001
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00143	0.00160	0.00229
	B1	0.00046	0.00069	0.00158
	B1	0.00001	0.00001	0.00003
	B1	-0.00001	-0.00001	0.00000
	B1	0.00128	0.00150	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7L	A0	0.00178	0.00193	0.00258
	A0	-0.00007	-0.00007	-0.00004
	A0	0.00007	0.00007	0.00008
	A0	0.00053	0.00068	0.00136
	A1	0.00171	0.00185	0.00254
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00004	0.00004	0.00005
	A1	0.00058	0.00075	0.00149
	B0	0.00140	0.00163	0.00254
	B0	-0.00001	-0.00001	0.00002
	B0	0.00007	0.00007	0.00007
	B0	0.00044	0.00067	0.00163
	B1	0.00130	0.00152	0.00248
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00004	0.00004	0.00007
	B1	0.00047	0.00072	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A1 * B0 * B1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00024	0.00024	0.00026
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A1 * B0 * B1 * Y)	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

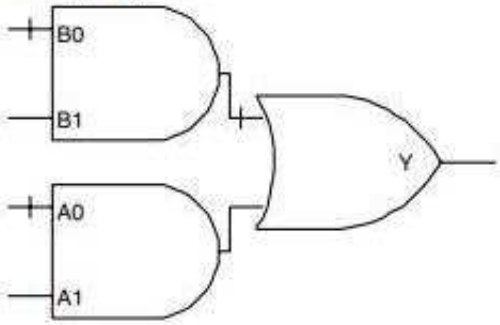
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1P4H7L	0.00065	0.00075	0.00078	0.00081	0.06968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1P4H7L	0.00000	1.58684	2.46383

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7L	A0->Y (RR)	0.04403	0.17887	0.50504
	A1->Y (RR)	0.04360	0.17969	0.50661
	B0->Y (RR)	0.03965	0.17031	0.49010
	B1->Y (RR)	0.03845	0.17037	0.49094

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7L	A0->Y (FF)	0.06041	0.17764	0.45650
	A1->Y (FF)	0.05801	0.17293	0.45006
	B0->Y (FF)	0.05354	0.17157	0.45559
	B1->Y (FF)	0.05029	0.16603	0.44770

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7L	A0	0.00048	0.00063	0.00125
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00172	0.00187	0.00249
	A1	0.00048	0.00067	0.00148
	A1	0.00006	0.00006	0.00006
	A1	-0.00001	-0.00001	0.00002
	A1	0.00157	0.00176	0.00257
	B0	0.00048	0.00067	0.00141
	B0	0.00000	0.00001	0.00001
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00147	0.00165	0.00236
	B1	0.00050	0.00073	0.00167
	B1	0.00000	0.00001	0.00005
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00133	0.00155	0.00245

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7L	A0	0.00186	0.00199	0.00268
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00007	0.00007	0.00007
	A0	0.00058	0.00073	0.00146
	A1	0.00177	0.00191	0.00264
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00004	0.00004	0.00004
	A1	0.00063	0.00080	0.00158
	B0	0.00147	0.00169	0.00266
	B0	-0.00001	-0.00001	0.00002
	B0	0.00007	0.00007	0.00007
	B0	0.00048	0.00072	0.00173
	B1	0.00133	0.00158	0.00259
	B1	-0.00001	-0.00001	0.00003
	B1	0.00002	0.00004	0.00005
	B1	0.00052	0.00077	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00024	0.00024	0.00026
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A1 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

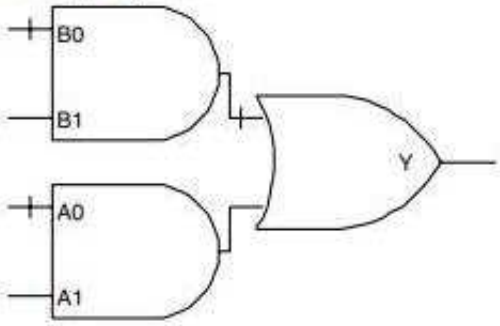
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X2H7L	0.00065	0.00076	0.00080	0.00079	0.08231

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X2H7L	0.00000	1.94468	2.62872

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7L	A0->Y (RR)	0.04836	0.18544	0.51565
	A1->Y (RR)	0.04801	0.18659	0.51768
	B0->Y (RR)	0.04382	0.17701	0.50125
	B1->Y (RR)	0.04230	0.17700	0.50156

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7L	A0->Y (FF)	0.06466	0.17935	0.44807
	A1->Y (FF)	0.06252	0.17493	0.44166
	B0->Y (FF)	0.05797	0.17347	0.44774
	B1->Y (FF)	0.05416	0.16763	0.43971

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7L	A0	0.00068	0.00084	0.00153
	A0	0.00006	0.00006	0.00006
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00191	0.00207	0.00275
	A1	0.00068	0.00088	0.00178
	A1	0.00006	0.00006	0.00006
	A1	-0.00000	-0.00000	0.00003
	A1	0.00176	0.00197	0.00287
	B0	0.00067	0.00086	0.00166
	B0	0.00000	0.00000	0.00001
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00166	0.00184	0.00262
	B1	0.00070	0.00094	0.00196
	B1	0.00000	0.00000	0.00001
	B1	-0.00000	-0.00000	0.00000
	B1	0.00150	0.00173	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7L	A0	0.00209	0.00223	0.00305
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00007	0.00007	0.00007
	A0	0.00082	0.00097	0.00182
	A1	0.00200	0.00215	0.00299
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00003	0.00003	0.00003
	A1	0.00086	0.00103	0.00192
	B0	0.00171	0.00194	0.00307
	B0	-0.00000	-0.00000	0.00002
	B0	0.00006	0.00006	0.00007
	B0	0.00071	0.00096	0.00212
	B1	0.00157	0.00181	0.00297
	B1	-0.00000	-0.00000	0.00000
	B1	0.00003	0.00003	0.00004
	B1	0.00073	0.00102	0.00222

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00023	0.00024	0.00025
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A1 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00023
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

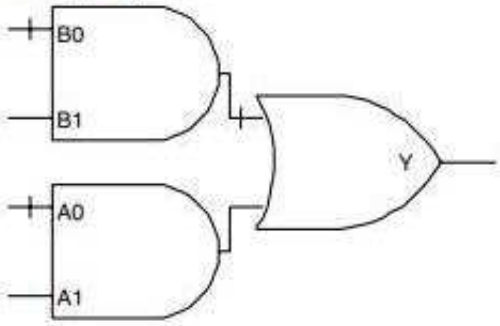
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X3H7L	0.00075	0.00083	0.00088	0.00088	0.12769

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X3H7L	0.00000	2.39426	3.17524

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7L	A0->Y (RR)	0.04294	0.18057	0.51080
	A1->Y (RR)	0.04229	0.18126	0.51185
	B0->Y (RR)	0.03901	0.17309	0.49764
	B1->Y (RR)	0.03759	0.17306	0.49793

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7L	A0->Y (FF)	0.06137	0.18227	0.46573
	A1->Y (FF)	0.05893	0.17750	0.45873
	B0->Y (FF)	0.05555	0.17751	0.46569
	B1->Y (FF)	0.05202	0.17187	0.45825

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7L	A0	0.00088	0.00108	0.00206
	A0	0.00006	0.00007	0.00007
	A0	-0.00004	-0.00004	-0.00001
	A0	0.00227	0.00250	0.00348
	A1	0.00087	0.00114	0.00242
	A1	0.00007	0.00007	0.00007
	A1	0.00000	0.00000	0.00002
	A1	0.00211	0.00238	0.00366
	B0	0.00086	0.00110	0.00221
	B0	-0.00000	-0.00000	0.00001
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00200	0.00222	0.00332
	B1	0.00088	0.00119	0.00261
	B1	-0.00000	-0.00000	0.00000
	B1	0.00000	0.00000	0.00002
	B1	0.00181	0.00211	0.00351

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7L	A0	0.00249	0.00269	0.00386
	A0	-0.00007	-0.00007	-0.00002
	A0	0.00008	0.00008	0.00008
	A0	0.00103	0.00123	0.00244
	A1	0.00238	0.00258	0.00378
	A1	-0.00007	-0.00007	-0.00004
	A1	0.00004	0.00004	0.00004
	A1	0.00108	0.00130	0.00255
	B0	0.00207	0.00239	0.00397
	B0	0.00000	0.00000	0.00004
	B0	0.00008	0.00008	0.00008
	B0	0.00096	0.00127	0.00287
	B1	0.00193	0.00224	0.00386
	B1	0.00000	0.00000	0.00001
	B1	0.00004	0.00004	0.00004
	B1	0.00098	0.00132	0.00298

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A1 * B0 * B1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * B0 * B1 * Y)	-0.00014	-0.00011	-0.00008
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00022	0.00023	0.00025
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00026	0.00027	0.00028
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00030	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

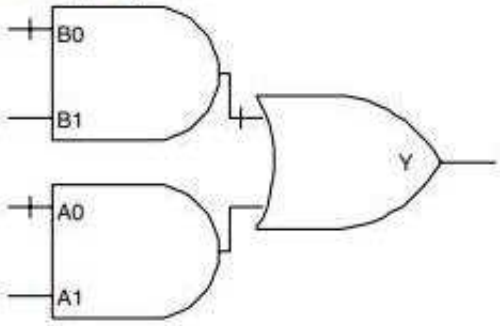
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002

AO22X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X4H7L	0.00084	0.00091	0.00097	0.00098	0.16457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X4H7L	0.00000	3.06577	4.29431

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7L	A0->Y (RR)	0.04195	0.17969	0.50966
	A1->Y (RR)	0.04088	0.18004	0.51044
	B0->Y (RR)	0.03784	0.17238	0.49708
	B1->Y (RR)	0.03660	0.17247	0.49781

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7L	A0->Y (FF)	0.06059	0.17965	0.45736
	A1->Y (FF)	0.05778	0.17451	0.44998
	B0->Y (FF)	0.05457	0.17501	0.45763
	B1->Y (FF)	0.05139	0.16953	0.44996

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7L	A0	0.00114	0.00139	0.00262
	A0	0.00008	0.00008	0.00008
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00272	0.00297	0.00420
	A1	0.00114	0.00147	0.00309
	A1	0.00008	0.00008	0.00008
	A1	0.00000	0.00001	0.00001
	A1	0.00251	0.00284	0.00446
	B0	0.00112	0.00142	0.00280
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00238	0.00266	0.00404
	B1	0.00114	0.00151	0.00330
	B1	-0.00001	-0.00001	0.00001
	B1	0.00001	0.00001	0.00003
	B1	0.00216	0.00252	0.00429

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7L	A0	0.00300	0.00325	0.00477
	A0	-0.00008	-0.00008	-0.00004
	A0	0.00009	0.00009	0.00009
	A0	0.00137	0.00163	0.00318
	A1	0.00283	0.00308	0.00465
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00004	0.00004	0.00004
	A1	0.00138	0.00167	0.00328
	B0	0.00252	0.00290	0.00495
	B0	0.00001	0.00001	0.00005
	B0	0.00009	0.00009	0.00009
	B0	0.00126	0.00165	0.00372
	B1	0.00234	0.00273	0.00481
	B1	0.00000	0.00001	0.00002
	B1	0.00004	0.00004	0.00004
	B1	0.00122	0.00171	0.00383

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A1 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00027	0.00027	0.00029
	(!A1 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A1 * B0 * B1 * Y)	0.00016	0.00017	0.00017
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00025	0.00026	0.00027
	(!A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00037	0.00037	0.00037
	(!A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * !B1 * Y)	-0.00001	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B1 * !Y)	0.00028	0.00029	0.00030
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

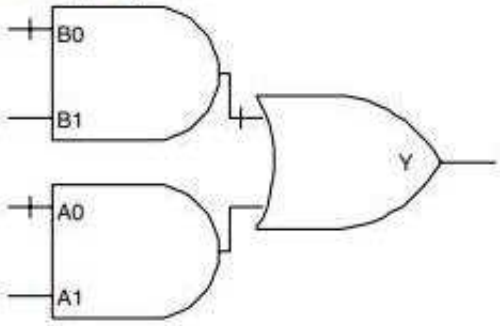
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B0 * !Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002

AO22X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X6H7L	0.00084	0.00092	0.00096	0.00098	0.24599

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X6H7L	0.00000	3.95303	5.91112

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7L	A0->Y (RR)	0.04910	0.19115	0.52829
	A1->Y (RR)	0.04808	0.19203	0.53023
	B0->Y (RR)	0.04491	0.18419	0.51599
	B1->Y (RR)	0.04363	0.18477	0.51784

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7L	A0->Y (FF)	0.07240	0.19798	0.48662
	A1->Y (FF)	0.06976	0.19314	0.47923
	B0->Y (FF)	0.06649	0.19383	0.48916
	B1->Y (FF)	0.06342	0.18867	0.48104

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7L	A0	0.00185	0.00216	0.00397
	A0	0.00004	0.00005	0.00006
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00339	0.00369	0.00551
	A1	0.00185	0.00225	0.00464
	A1	0.00005	0.00005	0.00005
	A1	0.00003	0.00003	0.00004
	A1	0.00317	0.00357	0.00596
	B0	0.00185	0.00218	0.00413
	B0	-0.00004	-0.00003	-0.00001
	B0	-0.00002	-0.00002	0.00003
	B0	0.00304	0.00337	0.00533
	B1	0.00187	0.00230	0.00482
	B1	-0.00004	-0.00003	-0.00001
	B1	0.00003	0.00003	0.00004
	B1	0.00282	0.00326	0.00578

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7L	A0	0.00375	0.00411	0.00646
	A0	-0.00005	-0.00005	-0.00001
	A0	0.00007	0.00007	0.00007
	A0	0.00211	0.00253	0.00490
	A1	0.00357	0.00394	0.00630
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00002	0.00002	0.00002
	A1	0.00195	0.00255	0.00495
	B0	0.00326	0.00379	0.00684
	B0	0.00003	0.00003	0.00004
	B0	0.00006	0.00007	0.00007
	B0	0.00206	0.00259	0.00566
	B1	0.00309	0.00360	0.00667
	B1	0.00003	0.00004	0.00008
	B1	0.00001	0.00002	0.00002
	B1	0.00202	0.00261	0.00572

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A1 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * Y)	-0.00002	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00027	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A1 * B0 * B1 * Y)	0.00016	0.00017	0.00017
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00002
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * B0 * B1 * Y)	-0.00015	-0.00012	-0.00008
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00025	0.00026	0.00027
	(!A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * Y)	-0.00001	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00037	0.00037	0.00037
	(!A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	-0.00001	0.00000	0.00001
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B1 * !Y)	0.00028	0.00029	0.00030
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B1 * !Y)	0.00028	0.00028	0.00030
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00033	0.00034	0.00034
	(!A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7L	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B0 * !Y)	0.00031	0.00032	0.00032
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00031	0.00032	0.00032
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO31X0P5H7L

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P5H7L	0.00063	0.00068	0.00074	0.00080	0.04545

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P5H7L	0.00000	1.46850	2.40825

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7L	A0->Y (RR)	0.05236	0.18162	0.50136
	A1->Y (RR)	0.05205	0.18556	0.51221
	A2->Y (RR)	0.04958	0.18303	0.50827
	B0->Y (RR)	0.02827	0.15387	0.46291

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7L	A0->Y (FF)	0.05478	0.16728	0.43976
	A1->Y (FF)	0.05211	0.16242	0.43041
	A2->Y (FF)	0.04865	0.15640	0.42298
	B0->Y (FF)	0.04991	0.16484	0.44925

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7L	A0	0.00036	0.00048	0.00097
	A0	0.00005	0.00005	0.00005
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00146	0.00159	0.00208
	A1	0.00035	0.00049	0.00101
	A1	0.00005	0.00005	0.00005
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00131	0.00144	0.00196
	A2	0.00035	0.00053	0.00120
	A2	0.00005	0.00005	0.00005
	A2	-0.00002	-0.00002	-0.00001
	A2	0.00119	0.00137	0.00204
	B0	0.00034	0.00061	0.00156
	B0	-0.00000	0.00000	0.00001
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00122	0.00146	0.00234

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7L	A0	0.00154	0.00167	0.00226
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00008	0.00008	0.00008
	A0	0.00042	0.00055	0.00114
	A1	0.00144	0.00159	0.00217
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00005	0.00005	0.00005
	A1	0.00048	0.00061	0.00119
	A2	0.00132	0.00147	0.00213
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00001	0.00002	0.00002
	A2	0.00046	0.00061	0.00126
	B0	0.00113	0.00140	0.00240
	B0	-0.00000	0.00000	0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00038	0.00068	0.00173

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A1 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00008
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A1 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00030	-0.00030	-0.00030

AO31X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P7H7L	0.00063	0.00069	0.00075	0.00083	0.05151

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P7H7L	0.00000	1.51404	2.42003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7L	A0->Y (RR)	0.05283	0.18302	0.50382
	A1->Y (RR)	0.05261	0.18721	0.51556
	A2->Y (RR)	0.05035	0.18487	0.51167
	B0->Y (RR)	0.02799	0.15440	0.46363

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7L	A0->Y (FF)	0.05551	0.16853	0.44089
	A1->Y (FF)	0.05292	0.16381	0.43171
	A2->Y (FF)	0.04980	0.15800	0.42475
	B0->Y (FF)	0.05114	0.16649	0.45056

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7L	A0	0.00038	0.00050	0.00101
	A0	0.00005	0.00005	0.00005
	A0	-0.00008	-0.00008	-0.00005
	A0	0.00149	0.00163	0.00214
	A1	0.00037	0.00051	0.00104
	A1	0.00005	0.00005	0.00006
	A1	-0.00005	-0.00005	-0.00002
	A1	0.00134	0.00148	0.00202
	A2	0.00038	0.00055	0.00124
	A2	0.00005	0.00005	0.00005
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00124	0.00142	0.00211
	B0	0.00035	0.00063	0.00158
	B0	-0.00000	-0.00000	0.00001
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00127	0.00151	0.00241

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7L	A0	0.00160	0.00173	0.00234
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00008	0.00008	0.00008
	A0	0.00046	0.00059	0.00120
	A1	0.00151	0.00164	0.00225
	A1	-0.00006	-0.00005	-0.00005
	A1	0.00005	0.00005	0.00005
	A1	0.00052	0.00064	0.00125
	A2	0.00138	0.00154	0.00220
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00001	0.00001	0.00002
	A2	0.00049	0.00064	0.00131
	B0	0.00133	0.00156	0.00249
	B0	0.00000	0.00000	0.00002
	B0	0.00008	0.00008	0.00008
	B0	0.00042	0.00070	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A1 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A1 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00031	-0.00031	-0.00029

AO31X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1H7L	0.00063	0.00068	0.00075	0.00083	0.06126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1H7L	0.00000	1.59089	2.44092

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7L	A0->Y (RR)	0.05292	0.18425	0.50688
	A1->Y (RR)	0.05263	0.18855	0.51886
	A2->Y (RR)	0.05045	0.18636	0.51531
	B0->Y (RR)	0.02744	0.15494	0.46741

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7L	A0->Y (FF)	0.05604	0.17097	0.44694
	A1->Y (FF)	0.05343	0.16627	0.43775
	A2->Y (FF)	0.05042	0.16057	0.43034
	B0->Y (FF)	0.05182	0.16905	0.45662

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7L	A0	0.00044	0.00056	0.00110
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00156	0.00168	0.00222
	A1	0.00043	0.00057	0.00114
	A1	0.00005	0.00005	0.00005
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00139	0.00154	0.00211
	A2	0.00043	0.00061	0.00134
	A2	0.00005	0.00005	0.00005
	A2	-0.00001	-0.00001	0.00002
	A2	0.00129	0.00147	0.00220
	B0	0.00041	0.00068	0.00167
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00132	0.00156	0.00250

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7L	A0	0.00164	0.00178	0.00243
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00007	0.00007	0.00007
	A0	0.00051	0.00065	0.00130
	A1	0.00155	0.00169	0.00234
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00003	0.00004	0.00004
	A1	0.00057	0.00070	0.00135
	A2	0.00144	0.00159	0.00229
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00001	0.00001	0.00002
	A2	0.00055	0.00070	0.00140
	B0	0.00138	0.00161	0.00258
	B0	0.00001	0.00001	0.00003
	B0	0.00007	0.00007	0.00007
	B0	0.00047	0.00076	0.00187

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A1 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A1 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00031	0.00031	0.00032

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00031	-0.00031	-0.00031

AO31X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1P4H7L	0.00063	0.00069	0.00075	0.00083	0.07017

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1P4H7L	0.00000	1.67663	2.46383

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7L	A0->Y (RR)	0.05218	0.18468	0.50942
	A1->Y (RR)	0.05193	0.18906	0.52129
	A2->Y (RR)	0.04969	0.18686	0.51860
	B0->Y (RR)	0.02645	0.15495	0.46873

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7L	A0->Y (FF)	0.05551	0.17098	0.44718
	A1->Y (FF)	0.05296	0.16635	0.43814
	A2->Y (FF)	0.04997	0.16062	0.43066
	B0->Y (FF)	0.05118	0.16896	0.45671

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7L	A0	0.00045	0.00058	0.00115
	A0	0.00004	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00157	0.00169	0.00226
	A1	0.00045	0.00059	0.00120
	A1	0.00004	0.00005	0.00005
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00141	0.00155	0.00216
	A2	0.00045	0.00063	0.00141
	A2	0.00004	0.00005	0.00005
	A2	-0.00001	-0.00001	-0.00000
	A2	0.00130	0.00148	0.00227
	B0	0.00042	0.00070	0.00173
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00132	0.00157	0.00255

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7L	A0	0.00167	0.00180	0.00250
	A0	-0.00005	-0.00004	-0.00003
	A0	0.00007	0.00007	0.00007
	A0	0.00054	0.00068	0.00138
	A1	0.00158	0.00172	0.00241
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00004	0.00004	0.00004
	A1	0.00060	0.00073	0.00142
	A2	0.00145	0.00161	0.00235
	A2	-0.00005	-0.00004	-0.00003
	A2	0.00000	0.00001	0.00001
	A2	0.00058	0.00073	0.00148
	B0	0.00139	0.00163	0.00266
	B0	0.00000	0.00001	0.00004
	B0	0.00007	0.00007	0.00007
	B0	0.00048	0.00079	0.00195

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A1 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * A2 * !B0 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00013
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A1 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00031	-0.00031	-0.00031

AO31X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X2H7L	0.00077	0.00071	0.00077	0.00085	0.09076

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X2H7L	0.00000	2.17933	2.63045

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7L	A0->Y (RR)	0.06366	0.19965	0.53035
	A1->Y (RR)	0.06074	0.20260	0.54253
	A2->Y (RR)	0.05851	0.20069	0.54016
	B0->Y (RR)	0.03127	0.16462	0.48547

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7L	A0->Y (FF)	0.06761	0.18836	0.47336
	A1->Y (FF)	0.06235	0.18171	0.46341
	A2->Y (FF)	0.05924	0.17641	0.45642
	B0->Y (FF)	0.06251	0.18672	0.48465

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7L	A0	0.00073	0.00088	0.00157
	A0	0.00004	0.00004	0.00004
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00194	0.00208	0.00278
	A1	0.00075	0.00090	0.00169
	A1	0.00004	0.00004	0.00004
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00178	0.00194	0.00272
	A2	0.00075	0.00094	0.00195
	A2	0.00004	0.00004	0.00005
	A2	-0.00000	-0.00000	0.00003
	A2	0.00165	0.00185	0.00285
	B0	0.00076	0.00104	0.00218
	B0	-0.00001	-0.00001	0.00003
	B0	-0.00000	-0.00000	0.00000
	B0	0.00173	0.00201	0.00313

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7L	A0	0.00210	0.00226	0.00315
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00006	0.00006	0.00006
	A0	0.00088	0.00104	0.00194
	A1	0.00195	0.00211	0.00302
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00003	0.00003	0.00003
	A1	0.00089	0.00105	0.00197
	A2	0.00184	0.00201	0.00295
	A2	-0.00004	-0.00004	-0.00003
	A2	0.00000	0.00000	0.00000
	A2	0.00087	0.00108	0.00203
	B0	0.00181	0.00206	0.00333
	B0	0.00001	0.00001	0.00003
	B0	0.00006	0.00006	0.00006
	B0	0.00080	0.00111	0.00245

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A1 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A2 * B0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00003	0.00004
	(!A0 * !A2 * B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00003	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A1 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00032	-0.00032	-0.00032

AO31X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X3H7L	0.00086	0.00079	0.00084	0.00093	0.12826

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X3H7L	0.00000	2.60038	3.11708

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7L	A0->Y (RR)	0.05610	0.19184	0.52101
	A1->Y (RR)	0.05396	0.19509	0.53276
	A2->Y (RR)	0.05151	0.19287	0.52956
	B0->Y (RR)	0.02724	0.15997	0.48013

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7L	A0->Y (FF)	0.06151	0.18132	0.46343
	A1->Y (FF)	0.05712	0.17531	0.45387
	A2->Y (FF)	0.05369	0.16971	0.44625
	B0->Y (FF)	0.05673	0.17979	0.47328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7L	A0	0.00089	0.00106	0.00197
	A0	0.00005	0.00005	0.00005
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00226	0.00244	0.00335
	A1	0.00090	0.00109	0.00211
	A1	0.00004	0.00005	0.00005
	A1	-0.00004	-0.00004	0.00002
	A1	0.00203	0.00225	0.00326
	A2	0.00090	0.00115	0.00245
	A2	0.00005	0.00005	0.00005
	A2	0.00000	0.00000	0.00005
	A2	0.00187	0.00216	0.00346
	B0	0.00090	0.00126	0.00271
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00000	0.00000	0.00001
	B0	0.00201	0.00234	0.00378

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7L	A0	0.00242	0.00263	0.00380
	A0	-0.00005	-0.00005	-0.00001
	A0	0.00008	0.00008	0.00008
	A0	0.00103	0.00124	0.00241
	A1	0.00226	0.00246	0.00364
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00004	0.00004	0.00004
	A1	0.00108	0.00128	0.00246
	A2	0.00211	0.00232	0.00355
	A2	-0.00005	-0.00005	-0.00004
	A2	-0.00000	-0.00000	0.00000
	A2	0.00105	0.00128	0.00252
	B0	0.00209	0.00241	0.00404
	B0	0.00002	0.00002	0.00006
	B0	0.00008	0.00008	0.00008
	B0	0.00098	0.00134	0.00306

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A1 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00029	0.00030	0.00031
	(A1 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A1 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00027	-0.00026	-0.00025
	(A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00018
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A2 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00013
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00007
	(!A0 * A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * Y)	0.00014	0.00014	0.00015
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00023	-0.00021	-0.00020
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00034	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00034	-0.00034	-0.00034

AO31X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X4H7L	0.00095	0.00088	0.00094	0.00100	0.16491

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X4H7L	0.00000	3.12701	3.78361

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7L	A0->Y (RR)	0.05215	0.18738	0.51472
	A1->Y (RR)	0.05022	0.19065	0.52605
	A2->Y (RR)	0.04782	0.18833	0.52194
	B0->Y (RR)	0.02499	0.15705	0.47498

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7L	A0->Y (FF)	0.05875	0.17832	0.45909
	A1->Y (FF)	0.05461	0.17247	0.44986
	A2->Y (FF)	0.05117	0.16679	0.44214
	B0->Y (FF)	0.05380	0.17654	0.46820

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7L	A0	0.00104	0.00125	0.00239
	A0	0.00005	0.00005	0.00005
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00260	0.00281	0.00394
	A1	0.00105	0.00129	0.00256
	A1	0.00005	0.00005	0.00005
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00237	0.00260	0.00387
	A2	0.00105	0.00135	0.00297
	A2	0.00005	0.00005	0.00005
	A2	0.00001	0.00001	0.00001
	A2	0.00218	0.00249	0.00410
	B0	0.00104	0.00147	0.00326
	B0	-0.00003	-0.00003	0.00000
	B0	0.00001	0.00001	0.00001
	B0	0.00227	0.00268	0.00446

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7L	A0	0.00279	0.00304	0.00450
	A0	-0.00005	-0.00005	-0.00001
	A0	0.00009	0.00009	0.00009
	A0	0.00120	0.00146	0.00293
	A1	0.00260	0.00284	0.00432
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00004	0.00004	0.00004
	A1	0.00125	0.00150	0.00299
	A2	0.00242	0.00268	0.00421
	A2	-0.00005	-0.00005	-0.00005
	A2	-0.00001	-0.00001	-0.00000
	A2	0.00121	0.00151	0.00305
	B0	0.00240	0.00279	0.00481
	B0	0.00003	0.00003	0.00011
	B0	0.00009	0.00009	0.00009
	B0	0.00114	0.00160	0.00372

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A1 * A2 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00029	0.00030	0.00030
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A1 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00029	-0.00028	-0.00027
	(A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A2 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00026	0.00027	0.00028
	(A0 * !A2 * B0 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * B0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A2 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A2 * B0 * Y)	0.00014	0.00015	0.00015
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00023
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A2 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A1 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00004
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00024	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A1 * B0 * Y)	0.00014	0.00015	0.00015
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * A1 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

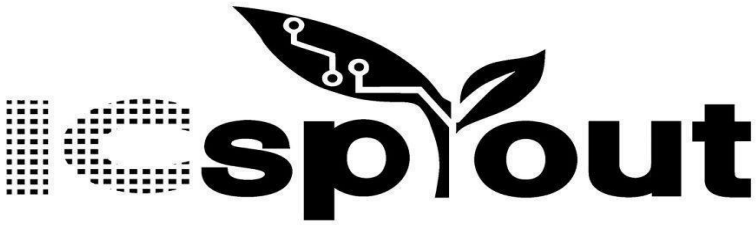
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00037	0.00037	0.00037

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7L	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00037	-0.00036	-0.00036

AOA211X0P5H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P5H7L	0.00073	0.00073	0.00078	0.00076	0.04520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P5H7L	0.00000	1.17458	1.58419

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7L	A0->Y (RR)	0.05656	0.19037	0.51624
	A1->Y (RR)	0.05702	0.18646	0.50485
	B0->Y (RR)	0.04000	0.16724	0.48010
	C0->Y (RR)	0.04940	0.18416	0.51584

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7L	A0->Y (FF)	0.05766	0.16899	0.43872
	A1->Y (FF)	0.05935	0.17317	0.44751
	B0->Y (FF)	0.05383	0.16902	0.44906
	C0->Y (FF)	0.03024	0.13644	0.39814

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	A0	0.00036	0.00047	0.00096
	A0	0.00005	0.00006	0.00006
	A0	-0.00005	-0.00004	-0.00002
	A0	0.00142	0.00155	0.00204
	A1	0.00035	0.00047	0.00092
	A1	0.00006	0.00006	0.00006
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00153	0.00164	0.00209
	B0	0.00036	0.00053	0.00118
	B0	0.00001	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00133	0.00148	0.00207
	C0	0.00035	0.00062	0.00155
	C0	0.00006	0.00006	0.00006
	C0	0.00000	0.00000	0.00002
	C0	0.00116	0.00137	0.00214

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	A0	0.00161	0.00174	0.00230
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00004	0.00005	0.00005
	A0	0.00052	0.00065	0.00121
	A1	0.00171	0.00183	0.00240
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00007	0.00007	0.00008
	A1	0.00052	0.00065	0.00122
	B0	0.00139	0.00161	0.00241
	B0	-0.00002	-0.00002	0.00001
	B0	0.00007	0.00007	0.00008
	B0	0.00045	0.00067	0.00154
	C0	0.00132	0.00158	0.00257
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00000	0.00000	0.00000
	C0	0.00041	0.00070	0.00176

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00023	0.00024
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00019	-0.00018	-0.00015

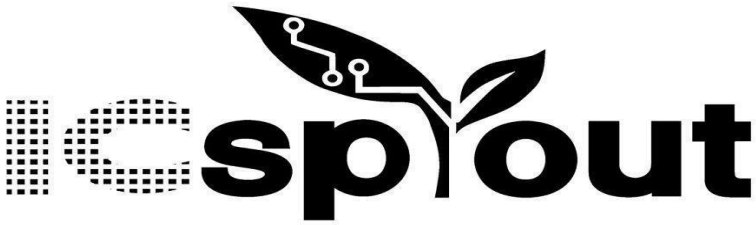
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7L	(A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X0P7H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P7H7L	0.00073	0.00073	0.00078	0.00077	0.05139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P7H7L	0.00000	1.20512	1.65598

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7L	A0->Y (RR)	0.05598	0.19071	0.51830
	A1->Y (RR)	0.05643	0.18674	0.50657
	B0->Y (RR)	0.03929	0.16735	0.48193
	C0->Y (RR)	0.04885	0.18456	0.51781

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7L	A0->Y (FF)	0.05735	0.16890	0.43827
	A1->Y (FF)	0.05904	0.17306	0.44685
	B0->Y (FF)	0.05346	0.16891	0.44856
	C0->Y (FF)	0.02965	0.13595	0.39703

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	A0	0.00038	0.00050	0.00101
	A0	0.00005	0.00005	0.00006
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00144	0.00157	0.00208
	A1	0.00038	0.00049	0.00096
	A1	0.00005	0.00006	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00155	0.00167	0.00213
	B0	0.00037	0.00055	0.00122
	B0	0.00000	0.00001	0.00002
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00134	0.00150	0.00211
	C0	0.00037	0.00064	0.00160
	C0	0.00005	0.00005	0.00005
	C0	0.00000	0.00000	0.00003
	C0	0.00117	0.00139	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	A0	0.00164	0.00176	0.00235
	A0	-0.00006	-0.00005	-0.00003
	A0	0.00004	0.00004	0.00004
	A0	0.00055	0.00068	0.00127
	A1	0.00173	0.00186	0.00245
	A1	-0.00005	-0.00006	-0.00005
	A1	0.00007	0.00007	0.00007
	A1	0.00056	0.00068	0.00127
	B0	0.00143	0.00163	0.00247
	B0	-0.00001	-0.00001	0.00001
	B0	0.00007	0.00007	0.00007
	B0	0.00047	0.00070	0.00160
	C0	0.00134	0.00160	0.00263
	C0	-0.00001	-0.00001	-0.00000
	C0	-0.00001	-0.00000	0.00000
	C0	0.00044	0.00073	0.00181

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00023	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

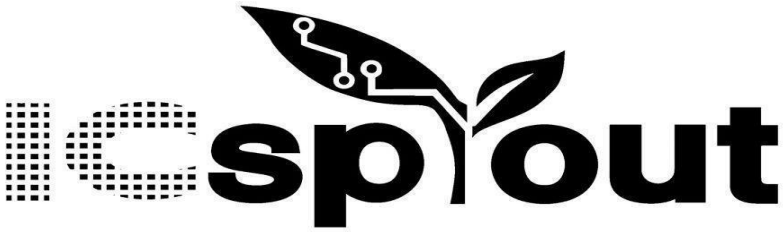
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7L	(A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X1H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1H7L	0.00073	0.00073	0.00078	0.00077	0.06103

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1H7L	0.00000	1.25709	1.77636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7L	A0->Y (RR)	0.05542	0.19112	0.51987
	A1->Y (RR)	0.05587	0.18706	0.50810
	B0->Y (RR)	0.03859	0.16745	0.48421
	C0->Y (RR)	0.04828	0.18500	0.51938

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7L	A0->Y (FF)	0.05733	0.17053	0.44301
	A1->Y (FF)	0.05899	0.17464	0.45120
	B0->Y (FF)	0.05347	0.17053	0.45320
	C0->Y (FF)	0.02915	0.13700	0.40103

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7L	A0	0.00042	0.00054	0.00109
	A0	0.00005	0.00005	0.00005
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00147	0.00161	0.00215
	A1	0.00042	0.00053	0.00103
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00158	0.00170	0.00220
	B0	0.00041	0.00059	0.00129
	B0	0.00001	0.00001	0.00002
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00137	0.00154	0.00218
	C0	0.00041	0.00068	0.00167
	C0	0.00005	0.00005	0.00005
	C0	0.00000	0.00001	0.00002
	C0	0.00122	0.00143	0.00227

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7L	A0	0.00167	0.00180	0.00243
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00004	0.00004	0.00004
	A0	0.00060	0.00072	0.00136
	A1	0.00175	0.00189	0.00253
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00007	0.00007	0.00007
	A1	0.00060	0.00072	0.00136
	B0	0.00145	0.00167	0.00256
	B0	-0.00001	-0.00001	0.00002
	B0	0.00007	0.00007	0.00007
	B0	0.00052	0.00075	0.00169
	C0	0.00137	0.00164	0.00272
	C0	-0.00001	-0.00001	-0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00056	0.00082	0.00190

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00023	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00020	-0.00018	-0.00015

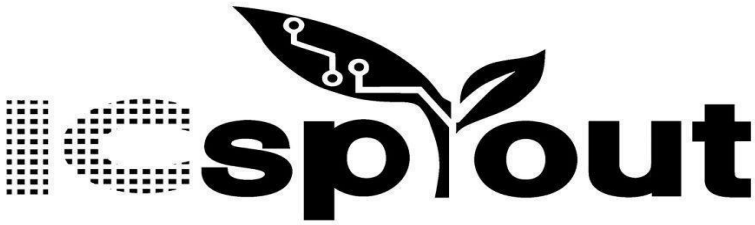
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7L	(A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

AOA211X1P4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1P4H7L	0.00073	0.00073	0.00078	0.00077	0.06976

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1P4H7L	0.00000	1.31491	1.91101

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7L	A0->Y (RR)	0.05542	0.19240	0.52315
	A1->Y (RR)	0.05588	0.18824	0.51128
	B0->Y (RR)	0.03839	0.16834	0.48560
	C0->Y (RR)	0.04832	0.18636	0.52233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7L	A0->Y (FF)	0.05758	0.17151	0.44429
	A1->Y (FF)	0.05923	0.17558	0.45250
	B0->Y (FF)	0.05372	0.17156	0.45497
	C0->Y (FF)	0.02893	0.13735	0.40173

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	A0	0.00045	0.00057	0.00116
	A0	0.00005	0.00005	0.00005
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00151	0.00163	0.00222
	A1	0.00045	0.00056	0.00110
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00161	0.00173	0.00226
	B0	0.00044	0.00062	0.00135
	B0	0.00000	0.00001	0.00001
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00140	0.00156	0.00224
	C0	0.00044	0.00071	0.00174
	C0	0.00005	0.00005	0.00005
	C0	0.00000	0.00001	0.00003
	C0	0.00124	0.00145	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	A0	0.00171	0.00185	0.00252
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00065	0.00078	0.00146
	A1	0.00181	0.00194	0.00262
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00007	0.00007	0.00007
	A1	0.00064	0.00078	0.00146
	B0	0.00151	0.00172	0.00267
	B0	-0.00001	-0.00001	0.00002
	B0	0.00006	0.00007	0.00007
	B0	0.00056	0.00080	0.00180
	C0	0.00141	0.00169	0.00283
	C0	-0.00001	-0.00001	0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00060	0.00088	0.00202

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00023	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

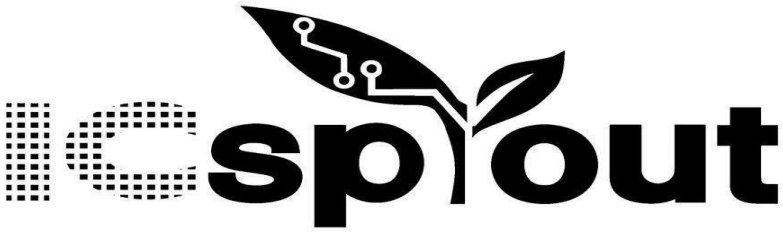
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7L	(A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

AOA211X2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X2H7L	0.00072	0.00071	0.00078	0.00077	0.08238

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X2H7L	0.00000	1.41552	2.14027

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7L	A0->Y (RR)	0.05422	0.19190	0.52356
	A1->Y (RR)	0.05483	0.18782	0.51154
	B0->Y (RR)	0.03792	0.16870	0.48743
	C0->Y (RR)	0.04745	0.18614	0.52297

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7L	A0->Y (FF)	0.05652	0.17005	0.44075
	A1->Y (FF)	0.05824	0.17420	0.44907
	B0->Y (FF)	0.05360	0.17128	0.45234
	C0->Y (FF)	0.02841	0.13588	0.39690

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7L	A0	0.00049	0.00062	0.00129
	A0	0.00004	0.00004	0.00004
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00154	0.00167	0.00233
	A1	0.00048	0.00061	0.00121
	A1	0.00004	0.00004	0.00004
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00164	0.00176	0.00236
	B0	0.00047	0.00066	0.00145
	B0	0.00000	0.00000	0.00001
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00143	0.00159	0.00232
	C0	0.00047	0.00075	0.00185
	C0	0.00004	0.00004	0.00004
	C0	0.00001	0.00001	0.00003
	C0	0.00127	0.00149	0.00246

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7L	**A0**	0.00168	0.00185	0.00261
	A0	-0.00004	-0.00004	-0.00000
	A0	0.00003	0.00003	0.00004
	A0	0.00065	0.00079	0.00156
	A1	0.00179	0.00195	0.00271
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00006	0.00006	0.00006
	A1	0.00065	0.00080	0.00157
	B0	0.00154	0.00176	0.00281
	B0	-0.00000	-0.00000	0.00001
	B0	0.00006	0.00006	0.00006
	B0	0.00060	0.00084	0.00193
	C0	0.00141	0.00169	0.00292
	C0	-0.00000	-0.00000	0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00061	0.00089	0.00212

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00023	0.00024	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A1 * B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00017
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00021	0.00022	0.00023
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00015	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

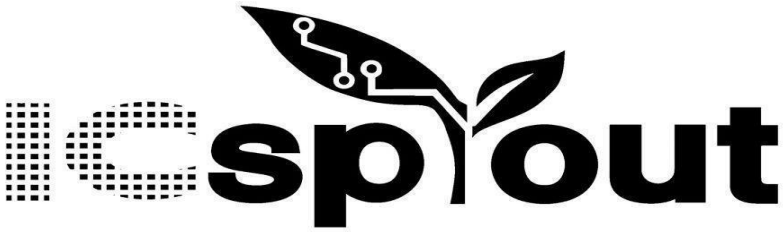
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7L	(A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOA211X3H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X3H7L	0.00081	0.00082	0.00087	0.00092	0.12809

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X3H7L	0.00000	1.97638	3.22680

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7L	A0->Y (RR)	0.05455	0.19519	0.53133
	A1->Y (RR)	0.05527	0.19103	0.51903
	B0->Y (RR)	0.03847	0.17229	0.49543
	C0->Y (RR)	0.04908	0.19066	0.53096

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7L	A0->Y (FF)	0.05846	0.17655	0.45524
	A1->Y (FF)	0.06039	0.18070	0.46332
	B0->Y (FF)	0.05607	0.17828	0.46670
	C0->Y (FF)	0.02977	0.14144	0.40922

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7L	A0	0.00084	0.00102	0.00201
	A0	0.00005	0.00005	0.00005
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00205	0.00223	0.00322
	A1	0.00083	0.00100	0.00189
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00219	0.00235	0.00324
	B0	0.00081	0.00105	0.00214
	B0	-0.00000	-0.00000	0.00001
	B0	-0.00004	-0.00003	-0.00001
	B0	0.00193	0.00214	0.00318
	C0	0.00080	0.00115	0.00265
	C0	0.00005	0.00005	0.00005
	C0	0.00002	0.00003	0.00006
	C0	0.00175	0.00203	0.00343

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7L	A0	0.00231	0.00251	0.00367
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00003	0.00003	0.00004
	A0	0.00108	0.00128	0.00245
	A1	0.00244	0.00263	0.00380
	A1	-0.00005	-0.00005	-0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00108	0.00128	0.00246
	B0	0.00213	0.00243	0.00400
	B0	0.00000	0.00000	0.00004
	B0	0.00007	0.00007	0.00007
	B0	0.00104	0.00135	0.00294
	C0	0.00198	0.00233	0.00408
	C0	0.00000	0.00000	0.00000
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00105	0.00139	0.00314

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00009	0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00018	0.00020
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00023	0.00024	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00001	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !C0 * !Y)	-0.00015	-0.00013	-0.00011
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !C0 * !Y)	0.00017	0.00018	0.00020
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A0 * !C0 * !Y)	0.00018	0.00019	0.00021
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00022	-0.00020	-0.00017

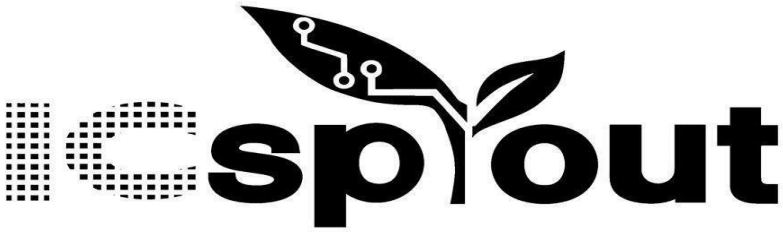
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * !A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7L	(A0 * !A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

AOA211X4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	x	0
x	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	1	x	0	0
1	1	x	1	1

Footprint

Cell Name	Area
AOA211X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X4H7L	0.00090	0.00088	0.00094	0.00104	0.16464

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X4H7L	0.00000	2.36743	3.90544

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7L	A0->Y (RR)	0.05115	0.19119	0.52496
	A1->Y (RR)	0.05174	0.18710	0.51340
	B0->Y (RR)	0.03563	0.16877	0.48986
	C0->Y (RR)	0.04603	0.18701	0.52478

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7L	A0->Y (FF)	0.05612	0.17403	0.45163
	A1->Y (FF)	0.05808	0.17820	0.45975
	B0->Y (FF)	0.05335	0.17526	0.46214
	C0->Y (FF)	0.02805	0.13967	0.40691

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7L	A0	0.00097	0.00120	0.00245
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00234	0.00256	0.00381
	A1	0.00097	0.00118	0.00229
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00251	0.00270	0.00382
	B0	0.00094	0.00122	0.00259
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00218	0.00244	0.00374
	C0	0.00094	0.00135	0.00321
	C0	0.00006	0.00006	0.00006
	C0	0.00003	0.00003	0.00006
	C0	0.00202	0.00236	0.00410

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7L	A0	0.00268	0.00292	0.00438
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00003	0.00004	0.00004
	A0	0.00129	0.00154	0.00301
	A1	0.00283	0.00307	0.00453
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00009	0.00009	0.00009
	A1	0.00128	0.00154	0.00301
	B0	0.00245	0.00282	0.00478
	B0	0.00000	0.00001	0.00008
	B0	0.00009	0.00009	0.00009
	B0	0.00124	0.00161	0.00360
	C0	0.00231	0.00273	0.00491
	C0	0.00001	0.00001	0.00001
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00123	0.00166	0.00383

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A1 * B0 * C0 * Y)	-0.00016	-0.00014	-0.00010
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00024
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00018
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00026	0.00027
	(A0 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * B0 * C0 * Y)	0.00016	0.00017	0.00017
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !C0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00017
	(!A0 * !C0 * !Y)	0.00020	0.00021	0.00023
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * !A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7L	(A0 * !A1 * !B0 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOAI211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P5H7L	0.00072	0.00073	0.00079	0.00079	0.02231

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P5H7L	0.00000	0.68095	1.27487

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7L	A0->YN (FR)	0.04163	0.19114	0.63189
	A1->YN (FR)	0.04299	0.19367	0.63369
	B0->YN (FR)	0.03752	0.18954	0.64075
	C0->YN (FR)	0.01665	0.11319	0.45193

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7L	A0->YN (RF)	0.03461	0.14991	0.51415
	A1->YN (RF)	0.03506	0.14336	0.47269
	B0->YN (RF)	0.02209	0.10728	0.39973
	C0->YN (RF)	0.02764	0.14343	0.51400

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	A0	0.00117	0.00125	0.00170
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00006	0.00006	0.00006
	A0	0.00005	0.00013	0.00058
	A1	0.00126	0.00134	0.00179
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00009	0.00009	0.00009
	A1	0.00005	0.00012	0.00058
	B0	0.00097	0.00109	0.00176
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00009	0.00009	0.00009
	B0	-0.00002	0.00012	0.00087
	C0	0.00089	0.00104	0.00189
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00000	0.00001	0.00002
	C0	-0.00006	0.00012	0.00112

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	A0	-0.00008	-0.00002	0.00039
	A0	0.00007	0.00007	0.00007
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00101	0.00109	0.00150
	A1	-0.00008	-0.00002	0.00036
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00111	0.00119	0.00158
	B0	-0.00016	0.00002	0.00064
	B0	0.00003	0.00003	0.00018
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00093	0.00101	0.00156
	C0	-0.00008	0.00008	0.00098
	C0	0.00007	0.00007	0.00007
	C0	-0.00001	-0.00001	0.00000
	C0	0.00053	0.00070	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A1 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00022	0.00023	0.00025
	(A1 * B0 * !C0 * YN)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00022	0.00022	0.00023
	(A1 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A1 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * YN)	0.00015	0.00016	0.00018
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00016
	(!A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * !C0 * YN)	0.00014	0.00015	0.00015
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00020	0.00021	0.00022
	(A0 * B0 * !C0 * YN)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	0.00018	0.00018	0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * YN)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * !C0 * YN)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00028	0.00029	0.00029
	(A0 * A1 * !C0 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * !C0 * YN)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !C0 * YN)	0.00015	0.00016	0.00017
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	-0.00019	-0.00018	-0.00015
	(!A0 * !C0 * YN)	0.00015	0.00016	0.00018
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * !A1 * !B0 * YN)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7L	(A0 * !A1 * !B0 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X0P7H7L

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P7H7L	0.00077	0.00078	0.00083	0.00085	0.02536

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P7H7L	0.00000	0.72721	1.37259

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7L	A0->YN (FR)	0.03867	0.18897	0.63344
	A1->YN (FR)	0.04010	0.19152	0.63503
	B0->YN (FR)	0.03496	0.18781	0.64284
	C0->YN (FR)	0.01550	0.11213	0.45254

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7L	A0->YN (RF)	0.03183	0.14627	0.51055
	A1->YN (RF)	0.03225	0.13986	0.46906
	B0->YN (RF)	0.01933	0.10506	0.39819
	C0->YN (RF)	0.02520	0.14019	0.51189

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	A0	0.00124	0.00133	0.00184
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00007	0.00007	0.00009
	A0	0.00002	0.00012	0.00063
	A1	0.00134	0.00143	0.00194
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00010	0.00010	0.00010
	A1	0.00003	0.00011	0.00063
	B0	0.00103	0.00117	0.00192
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00010	0.00010	0.00010
	B0	-0.00003	0.00013	0.00097
	C0	0.00093	0.00111	0.00207
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00002	0.00002	0.00003
	C0	-0.00008	0.00013	0.00125

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	A0	-0.00009	-0.00002	0.00044
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00108	0.00117	0.00163
	A1	-0.00009	-0.00002	0.00041
	A1	0.00008	0.00008	0.00008
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00120	0.00128	0.00172
	B0	-0.00017	0.00002	0.00072
	B0	0.00003	0.00004	0.00019
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00100	0.00110	0.00171
	C0	-0.00009	0.00009	0.00110
	C0	0.00008	0.00008	0.00008
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00057	0.00076	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A1 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00023	0.00024	0.00026
	(A1 * B0 * !C0 * YN)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00023	0.00023	0.00024
	(A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00022
	(!A1 * B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00021	0.00022	0.00022
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * YN)	0.00012	0.00013	0.00013
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * YN)	0.00016	0.00017	0.00020
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00017
	(!A1 * B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * B0 * C0 * !YN)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00021	0.00022	0.00023
	(A0 * B0 * !C0 * YN)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	0.00019	0.00020	0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * B0 * C0 * !YN)	0.00013	0.00013	0.00014
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00021	-0.00021	-0.00020
	(A0 * B0 * !C0 * YN)	0.00012	0.00012	0.00013
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00017
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * A1 * !C0 * YN)	-0.00013	-0.00012	-0.00010
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00023	0.00023	0.00024
	(A0 * !A1 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !C0 * YN)	0.00013	0.00013	0.00013
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !C0 * YN)	0.00016	0.00017	0.00018
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * YN)	-0.00020	-0.00019	-0.00016
	(!A0 * !C0 * YN)	0.00016	0.00017	0.00019
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	-0.00021	-0.00019	-0.00018

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * !A1 * !B0 * YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !B0 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00001	0.00002	0.00001
	(!A0 * !B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7L	(A0 * !A1 * !B0 * YN)	0.00023	0.00023	0.00024
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00023	0.00024	0.00024
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1H7L	0.00083	0.00082	0.00088	0.00089	0.03020

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1H7L	0.00000	0.80426	1.53108

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7L	A0->YN (FR)	0.03461	0.18584	0.63620
	A1->YN (FR)	0.03611	0.18840	0.63744
	B0->YN (FR)	0.03153	0.18516	0.64350
	C0->YN (FR)	0.01400	0.11068	0.45442

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7L	A0->YN (RF)	0.02863	0.14395	0.51297
	A1->YN (RF)	0.02913	0.13772	0.47134
	B0->YN (RF)	0.01414	0.10374	0.40084
	C0->YN (RF)	0.02257	0.13839	0.51465

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7L	A0	0.00132	0.00142	0.00203
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00000	0.00011	0.00072
	A1	0.00145	0.00154	0.00216
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00012	0.00012	0.00012
	A1	-0.00000	0.00009	0.00070
	B0	0.00111	0.00128	0.00216
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00012	0.00012	0.00012
	B0	-0.00004	0.00014	0.00112
	C0	0.00099	0.00119	0.00232
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00001	0.00002	0.00003
	C0	-0.00009	0.00015	0.00146

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7L	A0	-0.00010	-0.00002	0.00052
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00117	0.00128	0.00183
	A1	-0.00011	-0.00003	0.00049
	A1	0.00010	0.00010	0.00010
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00134	0.00142	0.00194
	B0	-0.00021	0.00002	0.00085
	B0	0.00004	0.00005	0.00022
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00109	0.00119	0.00192
	C0	-0.00010	0.00010	0.00129
	C0	0.00010	0.00010	0.00010
	C0	-0.00002	-0.00002	0.00000
	C0	0.00061	0.00082	0.00203

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A1 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00025	0.00026	0.00027
	(A1 * B0 * !C0 * YN)	-0.00014	-0.00013	-0.00010
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00024	0.00025	0.00025
	(A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00023	0.00024	0.00024
	(!A1 * B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * YN)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A1 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !C0 * YN)	0.00018	0.00019	0.00022
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00020	-0.00018
	(!A1 * B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * C0 * YN)	0.00018	0.00019	0.00019
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00024	0.00024	0.00026
	(A0 * B0 * !C0 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00023	0.00023	0.00024
	(A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !C0 * YN)	0.00017	0.00018	0.00018
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * C0 * YN)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00031	0.00031	0.00032
	(A0 * A1 * !C0 * YN)	-0.00015	-0.00014	-0.00011
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !C0 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !C0 * YN)	0.00018	0.00019	0.00020
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00021	-0.00020	-0.00017
	(!A0 * !C0 * YN)	0.00018	0.00019	0.00021
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * !A1 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7L	(A0 * !A1 * !B0 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006

AOAI211X1P4H7L

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1P4H7L	0.00090	0.00087	0.00091	0.00097	0.03438

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1P4H7L	0.00000	0.88948	1.70530

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7L	A0->YN (FR)	0.03256	0.18417	0.63705
	A1->YN (FR)	0.03416	0.18676	0.63799
	B0->YN (FR)	0.02945	0.18352	0.64489
	C0->YN (FR)	0.01302	0.10953	0.45473

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7L	A0->YN (RF)	0.02665	0.14079	0.50867
	A1->YN (RF)	0.02723	0.13477	0.46711
	B0->YN (RF)	0.00936	0.10144	0.39794
	C0->YN (RF)	0.02074	0.13549	0.51202

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	A0	0.00144	0.00155	0.00225
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00009	0.00009	0.00009
	A0	-0.00001	0.00010	0.00080
	A1	0.00156	0.00169	0.00239
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00014	0.00014	0.00014
	A1	-0.00001	0.00010	0.00080
	B0	0.00120	0.00139	0.00240
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00014	0.00014	0.00014
	B0	-0.00006	0.00015	0.00127
	C0	0.00106	0.00129	0.00258
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00002	0.00002	0.00006
	C0	-0.00014	0.00014	0.00163

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	A0	-0.00012	-0.00002	0.00060
	A0	0.00011	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00129	0.00140	0.00203
	A1	-0.00012	-0.00003	0.00056
	A1	0.00011	0.00012	0.00012
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00146	0.00156	0.00215
	B0	-0.00023	0.00002	0.00097
	B0	0.00005	0.00005	0.00024
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00118	0.00130	0.00215
	C0	-0.00011	0.00011	0.00147
	C0	0.00011	0.00012	0.00012
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00067	0.00091	0.00228

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A1 * B0 * C0 * !YN)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00026	0.00027	0.00029
	(A1 * B0 * !C0 * YN)	-0.00016	-0.00014	-0.00012
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00026	0.00026	0.00026
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A1 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * YN)	0.00020	0.00021	0.00024
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00023	-0.00022	-0.00019
	(!A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * C0 * YN)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * B0 * C0 * !YN)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00024	0.00025	0.00026
	(A0 * B0 * !C0 * YN)	-0.00016	-0.00014	-0.00012
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00023
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * !C0 * YN)	0.00015	0.00015	0.00016
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !C0 * YN)	0.00019	0.00020	0.00020
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * C0 * YN)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * YN)	-0.00016	-0.00015	-0.00012
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !C0 * YN)	0.00020	0.00020	0.00022
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * YN)	-0.00023	-0.00021	-0.00018
	(!A0 * !C0 * YN)	0.00020	0.00021	0.00023
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * !A1 * !B0 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(!A0 * !B0 * YN)	-0.00029	-0.00028	-0.00028
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7L	(A0 * !A1 * !B0 * YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !B0 * YN)	0.00028	0.00028	0.00029
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008

AOAI211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X2H7L	0.00100	0.00097	0.00104	0.00108	0.04052

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X2H7L	0.00000	1.03574	1.99892

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7L	A0->YN (FR)	0.03022	0.18225	0.63699
	A1->YN (FR)	0.03200	0.18496	0.63722
	B0->YN (FR)	0.02774	0.18232	0.64614
	C0->YN (FR)	0.01213	0.10853	0.45467

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7L	A0->YN (RF)	0.02418	0.13584	0.49965
	A1->YN (RF)	0.02484	0.13006	0.45823
	B0->YN (RF)	0.00391	0.09822	0.39128
	C0->YN (RF)	0.01870	0.13110	0.50325

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7L	A0	0.00159	0.00172	0.00257
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00011	0.00011	0.00011
	A0	-0.00005	0.00009	0.00093
	A1	0.00176	0.00189	0.00274
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00017	0.00017	0.00017
	A1	-0.00005	0.00008	0.00093
	B0	0.00135	0.00158	0.00278
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00017	0.00017	0.00017
	B0	-0.00009	0.00016	0.00149
	C0	0.00117	0.00145	0.00299
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00001	0.00003	0.00004
	C0	-0.00016	0.00017	0.00195

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7L	A0	-0.00014	-0.00002	0.00073
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00147	0.00159	0.00236
	A1	-0.00014	-0.00003	0.00068
	A1	0.00014	0.00014	0.00014
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00166	0.00178	0.00249
	B0	-0.00029	0.00003	0.00118
	B0	0.00006	0.00007	0.00029
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00135	0.00150	0.00251
	C0	-0.00013	0.00014	0.00176
	C0	0.00014	0.00014	0.00014
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00072	0.00103	0.00267

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A1 * B0 * C0 * !YN)	-0.00018	-0.00016	-0.00013
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00029	0.00030	0.00032
	(A1 * B0 * !C0 * YN)	-0.00018	-0.00016	-0.00014
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00028	0.00028	0.00028
	(!A1 * B0 * C0 * !YN)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A1 * B0 * !C0 * YN)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A1 * !B0 * C0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !C0 * YN)	0.00023	0.00024	0.00026
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00026	-0.00024	-0.00020
	(!A1 * B0 * C0 * !YN)	0.00022	0.00023	0.00023
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * !C0 * YN)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00027	-0.00026	-0.00025
	(!A1 * !B0 * C0 * YN)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * B0 * C0 * !YN)	-0.00018	-0.00016	-0.00013
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00026	0.00027	0.00029
	(A0 * B0 * !C0 * YN)	-0.00018	-0.00016	-0.00013
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00026	0.00026	0.00027
	(A0 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00024	0.00025	0.00025
	(!A0 * !B0 * C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * YN)	0.00022	0.00023	0.00023
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00024	-0.00022	-0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * C0 * YN)	0.00022	0.00023	0.00023
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00037	0.00037	0.00037
	(A0 * A1 * !C0 * YN)	-0.00019	-0.00017	-0.00014
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !C0 * YN)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A0 * !C0 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00037	-0.00037	-0.00036
	(A0 * A1 * !C0 * YN)	0.00019	0.00019	0.00019
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !C0 * YN)	0.00023	0.00023	0.00025
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00025	-0.00023	-0.00020
	(!A0 * !C0 * YN)	0.00023	0.00024	0.00026
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !C0 * YN)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * !A1 * !B0 * YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00007	0.00007	0.00008
	(!A0 * !B0 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7L	(A0 * !A1 * !B0 * YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X3H7L	0.00162	0.00159	0.00168	0.00174	0.06218

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X3H7L	0.00000	1.67636	3.20838

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7L	A0->YN (FR)	0.03038	0.18099	0.63059
	A1->YN (FR)	0.03360	0.18627	0.63634
	B0->YN (FR)	0.02909	0.18385	0.64513
	C0->YN (FR)	0.01203	0.10727	0.45085

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7L	A0->YN (RF)	0.02460	0.13737	0.50305
	A1->YN (RF)	0.02624	0.13287	0.46244
	B0->YN (RF)	0.00512	0.10011	0.39398
	C0->YN (RF)	0.01853	0.13207	0.50582

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7L	A0	0.00270	0.00292	0.00427
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00017	0.00017	0.00018
	A0	0.00003	0.00026	0.00159
	A1	0.00312	0.00333	0.00466
	A1	-0.00021	-0.00021	-0.00021
	A1	0.00026	0.00026	0.00026
	A1	0.00004	0.00024	0.00156
	B0	0.00243	0.00282	0.00468
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00026	0.00026	0.00026
	B0	-0.00008	0.00032	0.00243
	C0	0.00201	0.00245	0.00489
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00002	0.00004	0.00006
	C0	-0.00018	0.00035	0.00320

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7L	A0	-0.00021	-0.00003	0.00117
	A0	0.00021	0.00021	0.00021
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00237	0.00260	0.00382
	A1	-0.00022	-0.00005	0.00104
	A1	0.00021	0.00021	0.00021
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00288	0.00304	0.00414
	B0	-0.00021	0.00006	0.00188
	B0	0.00008	0.00009	0.00010
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00233	0.00256	0.00413
	C0	-0.00021	0.00023	0.00283
	C0	0.00021	0.00021	0.00021
	C0	-0.00004	-0.00004	-0.00002
	C0	0.00128	0.00171	0.00435

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A1 * B0 * C0 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00052	0.00054	0.00057
	(A1 * B0 * !C0 * YN)	-0.00029	-0.00026	-0.00021
	(A1 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00002
	(A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00052	0.00052	0.00052
	(A1 * !B0 * !C0 * YN)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00050	0.00050	0.00050
	(!A1 * B0 * C0 * !YN)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * !YN)	0.00048	0.00048	0.00048
	(!A1 * B0 * !C0 * YN)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00048	0.00048	0.00048
	(!A1 * !B0 * C0 * YN)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * YN)	-0.00037	-0.00036	-0.00036
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A1 * B0 * C0 * !YN)	0.00029	0.00030	0.00030
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00052	-0.00052	-0.00051
	(A1 * B0 * !C0 * YN)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * YN)	0.00002	0.00003	0.00004
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00052	-0.00052	-0.00051
	(A1 * !B0 * !C0 * YN)	0.00036	0.00038	0.00042
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00047	-0.00044	-0.00039
	(!A1 * B0 * C0 * !YN)	0.00035	0.00035	0.00035
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00048	-0.00047	-0.00045
	(!A1 * B0 * !C0 * YN)	0.00035	0.00035	0.00035
	(!A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00048	-0.00047	-0.00044
	(!A1 * !B0 * C0 * YN)	0.00037	0.00037	0.00038
	(!A1 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00037	0.00038	0.00038
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * B0 * C0 * !YN)	-0.00028	-0.00024	-0.00019
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00054	0.00055	0.00058
	(A0 * B0 * !C0 * YN)	-0.00028	-0.00025	-0.00021
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00054	0.00054	0.00054
	(A0 * !B0 * !C0 * YN)	-0.00034	-0.00034	-0.00033
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00050	0.00050	0.00051
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00034	-0.00034	-0.00033
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00049	0.00050	0.00050
	(!A0 * !B0 * C0 * YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00051	0.00052	0.00052
	(!A0 * !B0 * !C0 * YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00049	0.00049	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * B0 * C0 * !YN)	0.00029	0.00029	0.00029
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00054	-0.00053	-0.00053
	(A0 * B0 * !C0 * YN)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00053	-0.00053	-0.00053
	(A0 * !B0 * !C0 * YN)	0.00034	0.00035	0.00037
	(A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00048	-0.00045	-0.00041
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00034	0.00034	0.00034
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00050	-0.00048	-0.00046
	(!A0 * !B0 * C0 * YN)	0.00034	0.00035	0.00037
	(!A0 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00049	-0.00047	-0.00044
	(!A0 * !B0 * !C0 * YN)	0.00034	0.00034	0.00034
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00049	-0.00047	-0.00044

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00064	0.00064	0.00064
	(A0 * A1 * !C0 * YN)	-0.00033	-0.00030	-0.00025
	(A0 * A1 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00048	0.00048	0.00048
	(A0 * !A1 * !C0 * YN)	-0.00040	-0.00040	-0.00040
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00045	0.00045	0.00045
	(!A0 * !C0 * YN)	-0.00040	-0.00040	-0.00039
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !C0 * YN)	0.00045	0.00046	0.00046

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00064	-0.00064	-0.00063
	(A0 * A1 * !C0 * YN)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00003
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00048	-0.00047	-0.00047
	(A0 * !A1 * !C0 * YN)	0.00040	0.00041	0.00043
	(A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00042	-0.00039	-0.00035
	(!A0 * !C0 * YN)	0.00040	0.00042	0.00046
	(!A0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00043	-0.00040	-0.00036

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * !A1 * !B0 * YN)	-0.00052	-0.00052	-0.00051
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * YN)	0.00014	0.00014	0.00014
	(!A0 * !B0 * YN)	-0.00052	-0.00052	-0.00051
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !B0 * YN)	0.00015	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7L	(A0 * !A1 * !B0 * YN)	0.00051	0.00052	0.00052
	(A0 * !A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * YN)	0.00052	0.00052	0.00053
	(!A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * YN)	-0.00015	-0.00015	-0.00014

AOAI211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	x	0	x	1
x	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	1	x	0	1
1	1	x	1	0

Footprint

Cell Name	Area
AOAI211X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X4H7L	0.00191	0.00187	0.00197	0.00205	0.07956

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X4H7L	0.00000	2.07148	3.99784

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7L	A0->YN (FR)	0.02718	0.17799	0.63125
	A1->YN (FR)	0.03024	0.18309	0.63548
	B0->YN (FR)	0.02602	0.18119	0.64662
	C0->YN (FR)	0.01088	0.10564	0.44988

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7L	A0->YN (RF)	0.02173	0.13253	0.49563
	A1->YN (RF)	0.02280	0.12784	0.45486
	B0->YN (RF)	-0.00220	0.09639	0.38842
	C0->YN (RF)	0.01651	0.12822	0.50050

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7L	A0	0.00311	0.00340	0.00517
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00022	0.00023	0.00023
	A0	-0.00012	0.00017	0.00192
	A1	0.00361	0.00389	0.00562
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00034	0.00034	0.00034
	A1	-0.00012	0.00015	0.00188
	B0	0.00286	0.00329	0.00570
	B0	-0.00012	-0.00012	-0.00010
	B0	0.00033	0.00034	0.00034
	B0	-0.00020	0.00031	0.00303
	C0	0.00232	0.00290	0.00603
	C0	-0.00012	-0.00012	-0.00011
	C0	0.00003	0.00006	0.00008
	C0	-0.00029	0.00040	0.00404

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7L	A0	-0.00027	-0.00004	0.00155
	A0	0.00027	0.00028	0.00028
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00289	0.00315	0.00475
	A1	-0.00028	-0.00006	0.00139
	A1	0.00027	0.00028	0.00028
	A1	-0.00034	-0.00034	-0.00034
	A1	0.00345	0.00368	0.00513
	B0	-0.00028	0.00008	0.00246
	B0	0.00011	0.00012	0.00013
	B0	-0.00023	-0.00022	-0.00022
	B0	0.00277	0.00308	0.00514
	C0	-0.00027	0.00029	0.00363
	C0	0.00027	0.00028	0.00028
	C0	-0.00005	-0.00005	0.00000
	C0	0.00141	0.00206	0.00544

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A1 * B0 * C0 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00059	0.00061	0.00065
	(A1 * B0 * !C0 * YN)	-0.00036	-0.00032	-0.00027
	(A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00059	0.00059	0.00059
	(A1 * !B0 * !C0 * YN)	-0.00044	-0.00043	-0.00043
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00057	0.00057	0.00058
	(!A1 * B0 * C0 * !YN)	-0.00044	-0.00044	-0.00043
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	0.00054	0.00055	0.00055
	(!A1 * B0 * !C0 * YN)	-0.00044	-0.00043	-0.00043
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00054	0.00055	0.00055
	(!A1 * !B0 * C0 * YN)	-0.00046	-0.00045	-0.00044
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00045	-0.00045	-0.00045
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A1 * B0 * C0 * !YN)	0.00038	0.00038	0.00038
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00059	-0.00059	-0.00058
	(A1 * B0 * !C0 * YN)	0.00035	0.00036	0.00036
	(A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00059	-0.00059	-0.00058
	(A1 * !B0 * !C0 * YN)	0.00044	0.00047	0.00052
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00054	-0.00050	-0.00044
	(!A1 * B0 * C0 * !YN)	0.00043	0.00044	0.00044
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	-0.00055	-0.00053	-0.00050
	(!A1 * B0 * !C0 * YN)	0.00043	0.00044	0.00044
	(!A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	-0.00055	-0.00053	-0.00050
	(!A1 * !B0 * C0 * YN)	0.00046	0.00046	0.00047
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * YN)	0.00046	0.00046	0.00046
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * B0 * C0 * !YN)	-0.00035	-0.00031	-0.00025
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00061	0.00063	0.00066
	(A0 * B0 * !C0 * YN)	-0.00035	-0.00032	-0.00027
	(A0 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00060	0.00061	0.00061
	(A0 * !B0 * !C0 * YN)	-0.00043	-0.00042	-0.00042
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00057	0.00057	0.00058
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00056	0.00056	0.00056
	(!A0 * !B0 * C0 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00000	0.00002
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00059	0.00059	0.00059
	(!A0 * !B0 * !C0 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00056	0.00056	0.00056

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * B0 * C0 * !YN)	0.00037	0.00037	0.00037
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00061	-0.00060	-0.00060
	(A0 * B0 * !C0 * YN)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * !C0 * YN)	0.00043	0.00044	0.00046
	(A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00054	-0.00051	-0.00045
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00042	0.00042	0.00043
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00056	-0.00054	-0.00052
	(!A0 * !B0 * C0 * YN)	0.00043	0.00043	0.00044
	(!A0 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00056	-0.00053	-0.00048
	(!A0 * !B0 * !C0 * YN)	0.00042	0.00042	0.00043
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00056	-0.00053	-0.00050

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00072	0.00073	0.00073
	(A0 * A1 * !C0 * YN)	-0.00042	-0.00038	-0.00031
	(A0 * A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00054	0.00054	0.00054
	(A0 * !A1 * !C0 * YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * YN)	0.00051	0.00051	0.00051
	(!A0 * !C0 * YN)	-0.00049	-0.00049	-0.00049
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00052	0.00053	0.00053

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00073	-0.00072	-0.00072
	(A0 * A1 * !C0 * YN)	0.00041	0.00041	0.00042
	(A0 * A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A1 * !C0 * YN)	0.00050	0.00051	0.00053
	(A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00048	-0.00044	-0.00039
	(!A0 * !C0 * YN)	0.00050	0.00052	0.00056
	(!A0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00048	-0.00045	-0.00041

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * !A1 * !B0 * YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * YN)	0.00013	0.00013	0.00014
	(!A0 * !B0 * YN)	-0.00064	-0.00063	-0.00062
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * YN)	0.00014	0.00014	0.00015

Passive power(pJ) for C0 falling (conditional):

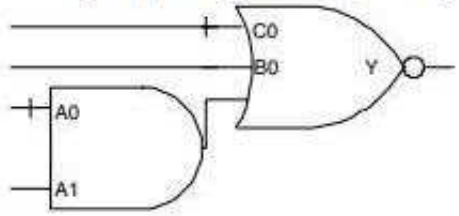
Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7L	(A0 * !A1 * !B0 * YN)	0.00062	0.00063	0.00064
	(A0 * !A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * YN)	0.00063	0.00064	0.00064
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * YN)	-0.00014	-0.00014	-0.00014

AOI211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P5H7L	0.00075	0.00078	0.00081	0.00079	0.01505

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P5H7L	0.00000	0.61155	3.27437

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7L	A0->Y (FR)	0.06046	0.20207	0.59885
	A1->Y (FR)	0.05710	0.19777	0.59545
	B0->Y (FR)	0.05116	0.20019	0.63331
	C0->Y (FR)	0.05505	0.20322	0.63340

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7L	A0->Y (RF)	0.02516	0.09108	0.31552
	A1->Y (RF)	0.02446	0.09092	0.32418
	B0->Y (RF)	-0.00041	0.05608	0.23282
	C0->Y (RF)	0.00780	0.05801	0.23496

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	A0	0.00131	0.00138	0.00178
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00008	0.00015	0.00055
	A1	0.00120	0.00129	0.00173
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00004	0.00005	0.00005
	A1	0.00008	0.00016	0.00061
	B0	0.00088	0.00101	0.00164
	B0	-0.00001	-0.00001	0.00000
	B0	0.00008	0.00008	0.00008
	B0	-0.00000	0.00014	0.00087
	C0	0.00101	0.00110	0.00162
	C0	-0.00004	-0.00004	-0.00002
	C0	0.00008	0.00008	0.00008
	C0	0.00002	0.00013	0.00073

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	A0	-0.00008	-0.00001	0.00041
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00109	0.00118	0.00160
	A1	-0.00008	0.00002	0.00055
	A1	0.00008	0.00008	0.00008
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00098	0.00110	0.00163
	B0	-0.00005	0.00009	0.00080
	B0	0.00000	0.00001	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00082	0.00096	0.00162
	C0	-0.00009	0.00004	0.00068
	C0	0.00002	0.00004	0.00006
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00087	0.00101	0.00160

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A1 * B0 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00021	0.00022	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(A1 * !B0 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A1 * B0 * C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A0 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A0 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00024
	(!A0 * A1 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for C0 falling (conditional):

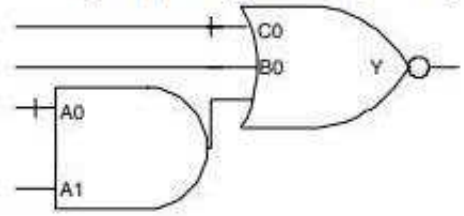
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021

AOI211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P7H7L	0.00079	0.00081	0.00084	0.00083	0.01711

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P7H7L	0.00000	0.65172	3.49015

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7L	A0->Y (FR)	0.05613	0.19881	0.60028
	A1->Y (FR)	0.05252	0.19434	0.59660
	B0->Y (FR)	0.04693	0.19711	0.63459
	C0->Y (FR)	0.05109	0.20048	0.63510

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7L	A0->Y (RF)	0.02308	0.08847	0.31311
	A1->Y (RF)	0.02224	0.08813	0.32223
	B0->Y (RF)	-0.00421	0.05450	0.23264
	C0->Y (RF)	0.00425	0.05653	0.23467

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	A0	0.00138	0.00146	0.00191
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00006	0.00014	0.00059
	A1	0.00126	0.00136	0.00187
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00006	0.00015	0.00067
	B0	0.00092	0.00107	0.00179
	B0	-0.00002	-0.00002	0.00000
	B0	0.00009	0.00009	0.00009
	B0	-0.00001	0.00015	0.00097
	C0	0.00107	0.00117	0.00176
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00009	0.00009	0.00009
	C0	0.00000	0.00013	0.00081

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	A0	-0.00009	-0.00001	0.00046
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00116	0.00127	0.00174
	A1	-0.00009	0.00002	0.00062
	A1	0.00009	0.00009	0.00009
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00104	0.00117	0.00177
	B0	-0.00005	0.00010	0.00090
	B0	0.00001	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00087	0.00102	0.00176
	C0	-0.00011	0.00005	0.00075
	C0	0.00004	0.00005	0.00007
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00094	0.00109	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A1 * B0 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00024
	(A1 * !B0 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00020
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A0 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A0 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00001	0.00002	0.00001
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00001	0.00002	0.00001
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00023	0.00024	0.00025

Passive power(pJ) for C0 falling (conditional):

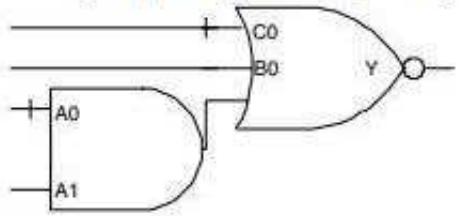
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023

AOI211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1H7L	0.00084	0.00087	0.00090	0.00085	0.02037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1H7L	0.00000	0.71912	3.85182

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7L	A0->Y (FR)	0.05099	0.19501	0.60278
	A1->Y (FR)	0.04726	0.19051	0.59874
	B0->Y (FR)	0.04204	0.19339	0.63570
	C0->Y (FR)	0.04595	0.19677	0.63672

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7L	A0->Y (RF)	0.02104	0.08682	0.31486
	A1->Y (RF)	0.02015	0.08643	0.32507
	B0->Y (RF)	-0.00819	0.05353	0.23526
	C0->Y (RF)	0.00052	0.05558	0.23750

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7L	A0	0.00151	0.00160	0.00214
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00011	0.00011	0.00011
	A0	0.00004	0.00013	0.00066
	A1	0.00137	0.00148	0.00210
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00006	0.00006	0.00006
	A1	0.00004	0.00015	0.00077
	B0	0.00100	0.00116	0.00202
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	0.00016	0.00113
	C0	0.00116	0.00128	0.00197
	C0	-0.00006	-0.00006	-0.00003
	C0	0.00011	0.00011	0.00011
	C0	-0.00001	0.00013	0.00093

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7L	A0	-0.00010	-0.00001	0.00054
	A0	0.00011	0.00011	0.00011
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00131	0.00141	0.00195
	A1	-0.00010	0.00002	0.00072
	A1	0.00011	0.00011	0.00011
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00115	0.00129	0.00199
	B0	-0.00012	0.00011	0.00105
	B0	0.00001	0.00002	0.00011
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00094	0.00112	0.00199
	C0	-0.00010	0.00006	0.00088
	C0	0.00003	0.00006	0.00007
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00102	0.00120	0.00196

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00022
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A0 * B0 * C0 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * C0 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A0 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00032	0.00033	0.00033

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00033	-0.00033	-0.00032

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00026
	(!A0 * A1 * B0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00024	0.00024	0.00026

Passive power(pJ) for C0 falling (conditional):

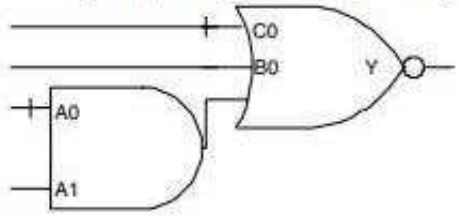
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00024	-0.00023	-0.00023

AOI211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1P4H7L	0.00091	0.00094	0.00099	0.00094	0.02320

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1P4H7L	0.00000	0.79407	4.25628

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7L	A0->Y (FR)	0.04809	0.19278	0.60358
	A1->Y (FR)	0.04428	0.18825	0.59946
	B0->Y (FR)	0.03965	0.19181	0.63725
	C0->Y (FR)	0.04364	0.19521	0.63935

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7L	A0->Y (RF)	0.01967	0.08464	0.31247
	A1->Y (RF)	0.01881	0.08421	0.32221
	B0->Y (RF)	-0.01122	0.05237	0.23433
	C0->Y (RF)	-0.00230	0.05443	0.23629

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	A0	0.00164	0.00174	0.00236
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00012	0.00012	0.00012
	A0	0.00000	0.00011	0.00072
	A1	0.00148	0.00160	0.00232
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00007	0.00007	0.00008
	A1	0.00001	0.00013	0.00085
	B0	0.00109	0.00128	0.00225
	B0	-0.00002	-0.00002	0.00000
	B0	0.00012	0.00012	0.00012
	B0	-0.00006	0.00016	0.00127
	C0	0.00128	0.00142	0.00220
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00012	0.00012	0.00012
	C0	-0.00003	0.00013	0.00105

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	A0	-0.00011	-0.00001	0.00061
	A0	0.00013	0.00013	0.00013
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00141	0.00157	0.00219
	A1	-0.00011	0.00003	0.00082
	A1	0.00013	0.00013	0.00013
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00126	0.00143	0.00223
	B0	-0.00008	0.00012	0.00119
	B0	0.00002	0.00002	0.00003
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00104	0.00124	0.00223
	C0	-0.00012	0.00006	0.00098
	C0	0.00007	0.00007	0.00009
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00113	0.00133	0.00220

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00011
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00026	0.00027
	(A1 * !B0 * C0 * !Y)	-0.00015	-0.00014	-0.00011
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00024
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A0 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A0 * B0 * C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00036	0.00036	0.00037
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00036	-0.00036	-0.00036

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !Y)	0.00025	0.00026	0.00028
	(!A0 * A1 * B0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * !Y)	0.00025	0.00026	0.00028

Passive power(pJ) for C0 falling (conditional):

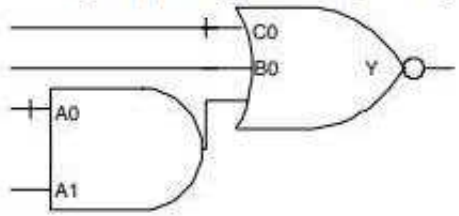
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025

AOI211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X2H7L	0.00100	0.00104	0.00108	0.00104	0.02735

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X2H7L	0.00000	0.92268	4.94484

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7L	A0->Y (FR)	0.04465	0.19005	0.60281
	A1->Y (FR)	0.04056	0.18536	0.60004
	B0->Y (FR)	0.03602	0.18907	0.63781
	C0->Y (FR)	0.04045	0.19284	0.63984

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7L	A0->Y (RF)	0.01778	0.08125	0.30683
	A1->Y (RF)	0.01691	0.08068	0.31619
	B0->Y (RF)	-0.01650	0.05009	0.23020
	C0->Y (RF)	-0.00720	0.05231	0.23284

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7L	A0	0.00182	0.00194	0.00269
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00015	0.00015	0.00015
	A0	-0.00003	0.00009	0.00084
	A1	0.00163	0.00177	0.00265
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	0.00012	0.00099
	B0	0.00118	0.00141	0.00259
	B0	-0.00003	-0.00003	0.00000
	B0	0.00015	0.00015	0.00015
	B0	-0.00009	0.00017	0.00151
	C0	0.00141	0.00157	0.00252
	C0	-0.00008	-0.00008	-0.00003
	C0	0.00015	0.00015	0.00015
	C0	-0.00007	0.00012	0.00123

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7L	A0	-0.00013	-0.00001	0.00074
	A0	0.00015	0.00016	0.00016
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00163	0.00178	0.00252
	A1	-0.00013	0.00003	0.00098
	A1	0.00015	0.00016	0.00016
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00140	0.00161	0.00257
	B0	-0.00010	0.00015	0.00142
	B0	0.00003	0.00003	0.00007
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00116	0.00139	0.00257
	C0	-0.00014	0.00008	0.00118
	C0	0.00008	0.00008	0.00012
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00129	0.00152	0.00254

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A1 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A1 * B0 * C0 * !Y)	0.00017	0.00018	0.00018
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A0 * B0 * C0 * !Y)	-0.00019	-0.00016	-0.00013
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * C0 * !Y)	-0.00019	-0.00016	-0.00013
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * !C0 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A0 * B0 * C0 * !Y)	0.00018	0.00018	0.00019
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00038	0.00039	0.00039
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00038	0.00039	0.00039

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00002	0.00003	0.00002
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00039	-0.00039	-0.00038
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00002	0.00003	0.00002
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00039	-0.00038	-0.00038

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !Y)	0.00030	0.00031	0.00032
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !Y)	0.00028	0.00029	0.00032
	(!A0 * A1 * B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * !Y)	0.00028	0.00029	0.00032

Passive power(pJ) for C0 falling (conditional):

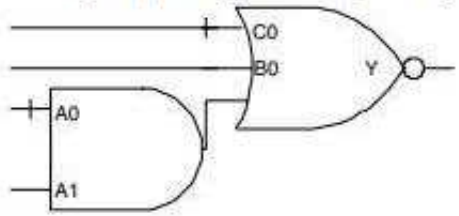
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * B0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028

AOI211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X3H7L	0.00182	0.00162	0.00165	0.00176	0.04286

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X3H7L	0.00000	1.49856	8.04195

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7L	A0->Y (FR)	0.04189	0.18785	0.60413
	A1->Y (FR)	0.03682	0.18196	0.59854
	B0->Y (FR)	0.03218	0.18564	0.63637
	C0->Y (FR)	0.03794	0.19051	0.63867

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7L	A0->Y (RF)	0.01701	0.08130	0.31026
	A1->Y (RF)	0.01491	0.08023	0.31986
	B0->Y (RF)	-0.02115	0.04926	0.23210
	C0->Y (RF)	-0.01119	0.05188	0.23465

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7L	A0	0.00288	0.00307	0.00430
	A0	-0.00024	-0.00024	-0.00023
	A0	0.00023	0.00023	0.00023
	A0	-0.00017	0.00003	0.00125
	A1	0.00250	0.00274	0.00422
	A1	-0.00024	-0.00024	-0.00023
	A1	0.00013	0.00014	0.00014
	A1	-0.00009	0.00015	0.00163
	B0	0.00176	0.00213	0.00409
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00023	0.00023	0.00023
	B0	-0.00026	0.00017	0.00240
	C0	0.00216	0.00244	0.00401
	C0	-0.00013	-0.00012	-0.00007
	C0	0.00023	0.00023	0.00023
	C0	-0.00025	0.00007	0.00192

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7L	A0	-0.00022	-0.00002	0.00120
	A0	0.00023	0.00024	0.00024
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00268	0.00293	0.00416
	A1	-0.00020	0.00008	0.00163
	A1	0.00023	0.00024	0.00024
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00223	0.00255	0.00411
	B0	-0.00010	0.00029	0.00240
	B0	0.00004	0.00004	0.00006
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00191	0.00227	0.00421
	C0	-0.00018	0.00016	0.00195
	C0	0.00010	0.00013	0.00017
	C0	-0.00014	-0.00014	-0.00013
	C0	0.00219	0.00252	0.00418

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A1 * B0 * C0 * !Y)	-0.00030	-0.00026	-0.00021
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00054	0.00055	0.00056
	(A1 * B0 * !C0 * !Y)	-0.00030	-0.00025	-0.00019
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00053	0.00055	0.00056
	(A1 * !B0 * C0 * !Y)	-0.00030	-0.00026	-0.00021
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00054	0.00055	0.00056
	(!A1 * C0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * C0 * !Y)	0.00050	0.00050	0.00050
	(!A1 * B0 * !C0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(A1 * B0 * !C0 * !Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A1 * !B0 * C0 * !Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00054	-0.00053	-0.00053
	(!A1 * C0 * !Y)	0.00037	0.00038	0.00038
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00050	-0.00049	-0.00048
	(!A1 * B0 * !C0 * !Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00050	-0.00049	-0.00048
	(!A1 * !B0 * !C0 * Y)	0.00043	0.00044	0.00046
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00045	-0.00043	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A0 * B0 * C0 * !Y)	-0.00026	-0.00023	-0.00019
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00047	0.00047	0.00048
	(A0 * B0 * !C0 * !Y)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00046	0.00047	0.00048
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00047	0.00047	0.00048
	(!A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * !B0 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00043	0.00043	0.00044
	(!A0 * !B0 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00047	-0.00046	-0.00046
	(!A0 * B0 * C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00043	-0.00042	-0.00041
	(!A0 * B0 * !C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00043	-0.00042	-0.00041
	(!A0 * !B0 * C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00043	-0.00042	-0.00041
	(!A0 * !B0 * !C0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * C0 * !Y)	0.00061	0.00061	0.00062
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00062	0.00062	0.00063
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00061	0.00061	0.00062

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00063	-0.00062	-0.00062
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	-0.00062	-0.00061	-0.00061

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00057	0.00059	0.00060
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00056	0.00056	0.00057
	(!A1 * B0 * !Y)	-0.00031	-0.00029	-0.00026
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00052	0.00054	0.00058
	(!A0 * A1 * B0 * !Y)	-0.00031	-0.00029	-0.00025
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00052	0.00053	0.00055

Passive power(pJ) for C0 falling (conditional):

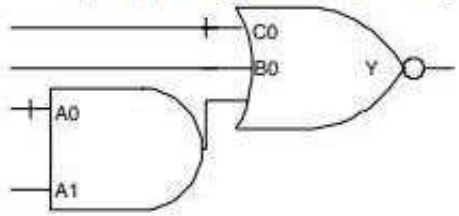
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00057	-0.00056	-0.00056
	(!A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00052	-0.00052	-0.00051

AOI211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X4H7L	0.00218	0.00187	0.00192	0.00208	0.05484

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X4H7L	0.00000	1.84535	9.88968

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7L	A0->Y (FR)	0.03973	0.18652	0.60564
	A1->Y (FR)	0.03438	0.18059	0.60132
	B0->Y (FR)	0.02929	0.18360	0.63854
	C0->Y (FR)	0.03522	0.18862	0.64099

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7L	A0->Y (RF)	0.01572	0.07908	0.30719
	A1->Y (RF)	0.01052	0.07788	0.31599
	B0->Y (RF)	-0.02494	0.04769	0.23022
	C0->Y (RF)	-0.01463	0.05037	0.23270

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7L	A0	0.00359	0.00384	0.00539
	A0	-0.00032	-0.00031	-0.00031
	A0	0.00030	0.00030	0.00030
	A0	-0.00018	0.00006	0.00161
	A1	0.00309	0.00338	0.00528
	A1	-0.00031	-0.00031	-0.00031
	A1	0.00018	0.00018	0.00018
	A1	-0.00008	0.00022	0.00211
	B0	0.00212	0.00259	0.00510
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00030	0.00030	0.00030
	B0	-0.00032	0.00024	0.00310
	C0	0.00264	0.00298	0.00500
	C0	-0.00017	-0.00016	-0.00009
	C0	0.00030	0.00030	0.00030
	C0	-0.00032	0.00009	0.00246

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7L	A0	-0.00028	-0.00003	0.00151
	A0	0.00031	0.00031	0.00032
	A0	-0.00030	-0.00030	-0.00030
	A0	0.00327	0.00360	0.00516
	A1	-0.00025	0.00010	0.00205
	A1	0.00031	0.00031	0.00031
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00266	0.00311	0.00508
	B0	-0.00015	0.00036	0.00303
	B0	0.00005	0.00006	0.00009
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00222	0.00272	0.00519
	C0	-0.00030	0.00020	0.00246
	C0	0.00009	0.00016	0.00023
	C0	-0.00018	-0.00018	-0.00017
	C0	0.00260	0.00307	0.00517

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A1 * B0 * C0 * !Y)	-0.00039	-0.00034	-0.00027
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00062	0.00063	0.00064
	(A1 * B0 * !C0 * !Y)	-0.00039	-0.00033	-0.00024
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00061	0.00063	0.00065
	(A1 * !B0 * C0 * !Y)	-0.00039	-0.00034	-0.00027
	(A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * C0 * !Y)	0.00062	0.00063	0.00064
	(!A1 * C0 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00056	0.00057	0.00057
	(!A1 * B0 * !C0 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00057	0.00057	0.00057
	(!A1 * !B0 * !C0 * Y)	-0.00054	-0.00054	-0.00054
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00056	0.00056	0.00056

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A1 * B0 * C0 * !Y)	0.00038	0.00039	0.00039
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00062	-0.00062	-0.00062
	(A1 * B0 * !C0 * !Y)	0.00039	0.00040	0.00040
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * !B0 * C0 * !Y)	0.00041	0.00041	0.00041
	(A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A1 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00057	-0.00056	-0.00054
	(!A1 * B0 * !C0 * !Y)	0.00049	0.00049	0.00050
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00057	-0.00056	-0.00054
	(!A1 * !B0 * !C0 * Y)	0.00056	0.00057	0.00061
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00051	-0.00050	-0.00048

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A0 * B0 * C0 * !Y)	-0.00033	-0.00030	-0.00024
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00052	0.00053	0.00054
	(A0 * B0 * !C0 * !Y)	-0.00034	-0.00029	-0.00023
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00052	0.00052	0.00054
	(A0 * !B0 * C0 * !Y)	-0.00034	-0.00030	-0.00024
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00052	0.00053	0.00054
	(!A0 * B0 * C0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00048	0.00048	0.00048
	(!A0 * B0 * !C0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * C0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !C0 * Y)	-0.00058	-0.00058	-0.00058
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !C0 * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A0 * B0 * C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00052	-0.00052	-0.00052
	(A0 * B0 * !C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * !B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00052	-0.00052	-0.00051
	(!A0 * B0 * C0 * !Y)	0.00041	0.00041	0.00041
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00047	-0.00046	-0.00045
	(!A0 * B0 * !C0 * !Y)	0.00041	0.00041	0.00042
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00048	-0.00046	-0.00045
	(!A0 * !B0 * C0 * !Y)	0.00041	0.00041	0.00041
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00047	-0.00046	-0.00045
	(!A0 * !B0 * !C0 * Y)	0.00059	0.00059	0.00059
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00069	0.00070	0.00070
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00070	0.00071	0.00071
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00069	0.00070	0.00070

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * C0 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00071	-0.00071	-0.00070
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00070	-0.00069	-0.00069

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00067	0.00069	0.00070
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00065	0.00066	0.00066
	(!A1 * B0 * !Y)	-0.00039	-0.00036	-0.00032
	(!A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00060	0.00063	0.00068
	(!A0 * A1 * B0 * !Y)	-0.00039	-0.00036	-0.00031
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00060	0.00062	0.00066

Passive power(pJ) for C0 falling (conditional):

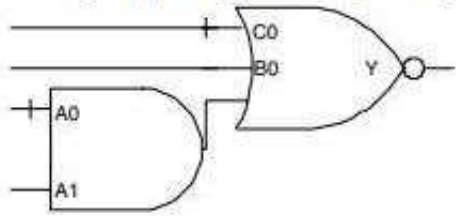
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00066	-0.00065	-0.00065
	(!A1 * B0 * !Y)	0.00041	0.00041	0.00041
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * B0 * !Y)	0.00041	0.00041	0.00041
	(!A0 * A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00060	-0.00060	-0.00059

AOI211X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X6H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X6H7L	0.00339	0.00332	0.00357	0.00348	0.08540

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X6H7L	0.00000	2.99712	16.08390

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7L	A0->Y (FR)	0.03952	0.18562	0.60239
	A1->Y (FR)	0.03421	0.17955	0.59719
	B0->Y (FR)	0.03579	0.18889	0.63951
	C0->Y (FR)	0.03028	0.18418	0.63680

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7L	A0->Y (RF)	0.01582	0.07981	0.30981
	A1->Y (RF)	0.01088	0.07885	0.31887
	B0->Y (RF)	-0.01430	0.05096	0.23433
	C0->Y (RF)	-0.02445	0.04831	0.23144

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7L	A0	0.00567	0.00608	0.00862
	A0	-0.00048	-0.00047	-0.00047
	A0	0.00045	0.00046	0.00046
	A0	-0.00037	0.00004	0.00257
	A1	0.00503	0.00551	0.00859
	A1	-0.00048	-0.00047	-0.00047
	A1	0.00026	0.00027	0.00028
	A1	-0.00019	0.00030	0.00336
	B0	0.00435	0.00491	0.00815
	B0	-0.00026	-0.00025	-0.00019
	B0	0.00045	0.00046	0.00046
	B0	-0.00053	0.00014	0.00393
	C0	0.00359	0.00433	0.00832
	C0	-0.00008	-0.00008	0.00000
	C0	0.00045	0.00045	0.00046
	C0	-0.00054	0.00035	0.00489

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7L	A0	-0.00041	0.00000	0.00250
	A0	0.00047	0.00047	0.00048
	A0	-0.00046	-0.00046	-0.00045
	A0	0.00536	0.00583	0.00834
	A1	-0.00041	0.00015	0.00331
	A1	0.00047	0.00047	0.00048
	A1	-0.00027	-0.00027	-0.00026
	A1	0.00435	0.00514	0.00833
	B0	-0.00044	0.00035	0.00398
	B0	0.00021	0.00026	0.00036
	B0	-0.00027	-0.00027	-0.00027
	B0	0.00436	0.00511	0.00847
	C0	-0.00021	0.00060	0.00487
	C0	0.00007	0.00008	0.00009
	C0	-0.00027	-0.00027	-0.00026
	C0	0.00383	0.00461	0.00855

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A1 * B0 * C0 * !Y)	-0.00053	-0.00047	-0.00038
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * B0 * C0 * !Y)	0.00110	0.00111	0.00113
	(A1 * B0 * !C0 * !Y)	-0.00054	-0.00047	-0.00038
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00110	0.00111	0.00113
	(A1 * !B0 * C0 * !Y)	-0.00053	-0.00046	-0.00035
	(A1 * !B0 * C0 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00109	0.00111	0.00113
	(!A1 * B0 * !Y)	-0.00065	-0.00065	-0.00065
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00103	0.00103	0.00103
	(!A1 * !B0 * C0 * !Y)	-0.00065	-0.00065	-0.00065
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00102	0.00103	0.00104
	(!A1 * !B0 * !C0 * Y)	-0.00077	-0.00076	-0.00076
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00097	0.00097	0.00098

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A1 * B0 * C0 * !Y)	0.00052	0.00053	0.00053
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00110	-0.00110	-0.00109
	(A1 * B0 * !C0 * !Y)	0.00055	0.00056	0.00056
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00110	-0.00109	-0.00108
	(A1 * !B0 * C0 * !Y)	0.00054	0.00054	0.00054
	(A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00005
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * C0 * !Y)	-0.00109	-0.00109	-0.00109
	(!A1 * B0 * !Y)	0.00065	0.00065	0.00066
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00103	-0.00101	-0.00098
	(!A1 * !B0 * C0 * !Y)	0.00065	0.00065	0.00066
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00102	-0.00101	-0.00099
	(!A1 * !B0 * !C0 * Y)	0.00079	0.00083	0.00086
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00090	-0.00087	-0.00082

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A0 * B0 * C0 * !Y)	-0.00058	-0.00051	-0.00041
	(A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00091	0.00092	0.00094
	(A0 * B0 * !C0 * !Y)	-0.00058	-0.00051	-0.00040
	(A0 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00091	0.00092	0.00094
	(A0 * !B0 * C0 * !Y)	-0.00057	-0.00049	-0.00037
	(A0 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00090	0.00092	0.00095
	(!A0 * B0 * C0 * !Y)	-0.00073	-0.00072	-0.00072
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !Y)	0.00083	0.00084	0.00084
	(!A0 * B0 * !C0 * !Y)	-0.00073	-0.00072	-0.00072
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00083	0.00084	0.00084
	(!A0 * !B0 * C0 * !Y)	-0.00073	-0.00072	-0.00072
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !Y)	0.00083	0.00084	0.00084
	(!A0 * !B0 * !C0 * Y)	-0.00099	-0.00098	-0.00097
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * !C0 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A0 * B0 * C0 * !Y)	0.00057	0.00057	0.00058
	(A0 * B0 * C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00091	-0.00091	-0.00090
	(A0 * B0 * !C0 * !Y)	0.00060	0.00061	0.00061
	(A0 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00090	-0.00090	-0.00089
	(A0 * !B0 * C0 * !Y)	0.00059	0.00059	0.00059
	(A0 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00090	-0.00090	-0.00089
	(!A0 * B0 * C0 * !Y)	0.00072	0.00073	0.00073
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00083	-0.00081	-0.00079
	(!A0 * B0 * !C0 * !Y)	0.00072	0.00073	0.00073
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * !Y)	-0.00083	-0.00081	-0.00079
	(!A0 * !B0 * C0 * !Y)	0.00072	0.00072	0.00073
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !Y)	-0.00083	-0.00081	-0.00079
	(!A0 * !B0 * !C0 * Y)	0.00098	0.00100	0.00100
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A0 * A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * C0 * !Y)	0.00117	0.00119	0.00121
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00114	0.00114	0.00115
	(!A1 * C0 * !Y)	-0.00060	-0.00056	-0.00049
	(!A1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * C0 * !Y)	0.00106	0.00110	0.00117
	(!A0 * A1 * C0 * !Y)	-0.00060	-0.00056	-0.00049
	(!A0 * A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * C0 * !Y)	0.00106	0.00110	0.00118

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A0 * A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * C0 * !Y)	-0.00115	-0.00115	-0.00114
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00010	0.00010	0.00011
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00115	-0.00114	-0.00113
	(!A1 * C0 * !Y)	0.00063	0.00064	0.00064
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00106	-0.00105	-0.00104
	(!A0 * A1 * C0 * !Y)	0.00063	0.00064	0.00064
	(!A0 * A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * C0 * !Y)	-0.00106	-0.00105	-0.00104

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00124	0.00125	0.00126
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !Y)	0.00127	0.00127	0.00128
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00124	0.00125	0.00126

Passive power(pJ) for C0 falling (conditional):

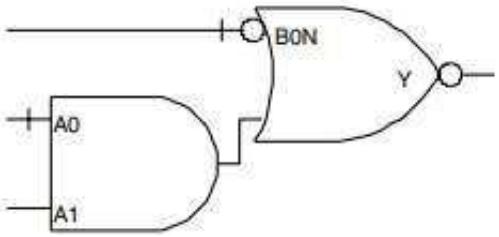
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00007	0.00008	0.00008
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00125	-0.00125	-0.00124
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00128	-0.00127	-0.00126
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00126	-0.00125	-0.00124

AOI21BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P5H7L	0.00066	0.00071	0.00075	0.02306

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P5H7L	0.00000	1.41021	2.40593

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7L	A0->Y (FR)	0.03500	0.18751	0.63840
	A1->Y (FR)	0.03245	0.18323	0.63438
	B0N->Y (RR)	0.04261	0.16136	0.45691

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7L	A0->Y (RF)	0.02054	0.10887	0.40764
	A1->Y (RF)	0.01959	0.10885	0.42256
	B0N->Y (FF)	0.02928	0.09792	0.26720

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	A0	0.00091	0.00100	0.00155
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00016	0.00024	0.00079
	A1	0.00080	0.00090	0.00154
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00003	0.00003	0.00003
	A1	0.00016	0.00027	0.00090
	B0N	0.00062	0.00091	0.00185
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00005	0.00005	0.00005
	B0N	0.00095	0.00124	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	A0	-0.00008	0.00001	0.00053
	A0	0.00005	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00066	0.00075	0.00127
	A1	-0.00007	0.00004	0.00068
	A1	0.00005	0.00006	0.00006
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00052	0.00065	0.00131
	B0N	0.00097	0.00130	0.00238
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00065	0.00097	0.00203

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00021	0.00022	0.00023
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A1 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0N * Y)	0.00015	0.00016	0.00017
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0N * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A0 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0N * Y)	0.00020	0.00020	0.00020
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A0 * A1 * !Y)	-0.00008	0.00019	0.00112
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00054	0.00081	0.00174

Passive power(pJ) for B0N falling (conditional):

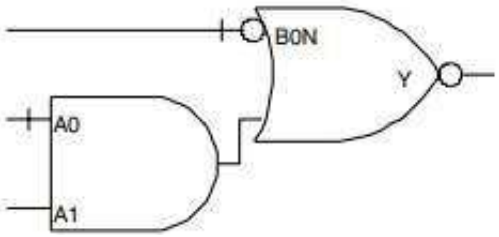
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7L	(A0 * A1 * !Y)	0.00081	0.00112	0.00214
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00020	0.00051	0.00152

AOI21BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P7H7L	0.00066	0.00072	0.00080	0.02448

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P7H7L	0.00000	1.48347	2.48950

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7L	A0->Y (FR)	0.03423	0.18882	0.64811
	A1->Y (FR)	0.03188	0.18474	0.64466
	B0N->Y (RR)	0.04086	0.15965	0.45658

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7L	A0->Y (RF)	0.02106	0.11389	0.42428
	A1->Y (RF)	0.02018	0.11396	0.44095
	B0N->Y (FF)	0.02725	0.09278	0.25452

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	A0	0.00094	0.00103	0.00158
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00007
	A0	0.00018	0.00026	0.00081
	A1	0.00083	0.00093	0.00157
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00003	0.00003	0.00003
	A1	0.00018	0.00028	0.00091
	B0N	0.00064	0.00097	0.00201
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00005	0.00005	0.00005
	B0N	0.00100	0.00133	0.00240

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	A0	-0.00008	0.00001	0.00052
	A0	0.00006	0.00006	0.00006
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00067	0.00076	0.00128
	A1	-0.00007	0.00004	0.00068
	A1	0.00006	0.00006	0.00006
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00054	0.00066	0.00132
	B0N	0.00103	0.00139	0.00259
	B0N	0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00067	0.00103	0.00221

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00021	0.00022	0.00023
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A1 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0N * Y)	0.00015	0.00016	0.00016
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A0 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0N * Y)	0.00020	0.00020	0.00021
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A0 * A1 * !Y)	-0.00009	0.00022	0.00124
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00057	0.00088	0.00190

Passive power(pJ) for B0N falling (conditional):

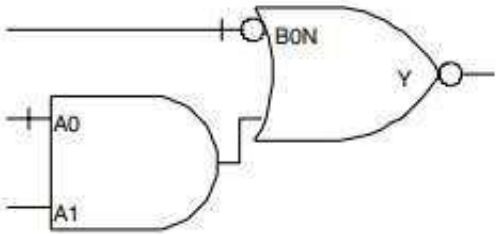
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7L	(A0 * A1 * !Y)	0.00086	0.00120	0.00233
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00021	0.00055	0.00167

AOI21BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1H7L	0.00067	0.00074	0.00087	0.02632

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1H7L	0.00000	1.60733	2.63074

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7L	A0->Y (FR)	0.03358	0.19076	0.66071
	A1->Y (FR)	0.03151	0.18698	0.65666
	B0N->Y (RR)	0.03923	0.15819	0.45734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7L	A0->Y (RF)	0.02192	0.12056	0.44774
	A1->Y (RF)	0.02113	0.12081	0.46335
	B0N->Y (FF)	0.02499	0.08686	0.23978

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7L	A0	0.00099	0.00107	0.00162
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00007	0.00007	0.00008
	A0	0.00020	0.00029	0.00083
	A1	0.00088	0.00098	0.00162
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00003	0.00004	0.00007
	A1	0.00021	0.00031	0.00094
	B0N	0.00068	0.00106	0.00225
	B0N	-0.00000	0.00000	0.00001
	B0N	0.00005	0.00005	0.00005
	B0N	0.00109	0.00147	0.00270

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7L	A0	-0.00007	0.00001	0.00052
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00068	0.00078	0.00130
	A1	-0.00007	0.00004	0.00068
	A1	0.00007	0.00007	0.00007
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00057	0.00068	0.00134
	B0N	0.00111	0.00153	0.00291
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00071	0.00112	0.00247

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00021	0.00022	0.00024
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A1 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0N * Y)	0.00015	0.00016	0.00016
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A0 * !B0N * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00022	0.00023	0.00024
	(!A0 * B0N * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A0 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0N * Y)	0.00021	0.00021	0.00021
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A0 * A1 * !Y)	-0.00010	0.00025	0.00143
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00062	0.00097	0.00215

Passive power(pJ) for B0N falling (conditional):

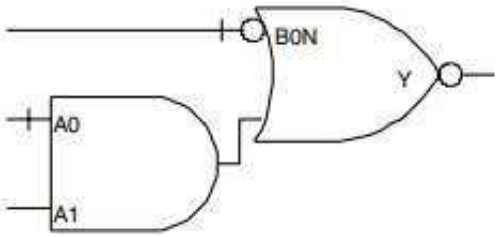
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7L	(A0 * A1 * !Y)	0.00093	0.00133	0.00263
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00022	0.00061	0.00191

AOI21BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1P4H7L	0.00066	0.00074	0.00093	0.02765

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1P4H7L	0.00000	1.74546	2.78826

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7L	A0->Y (FR)	0.03327	0.19218	0.66804
	A1->Y (FR)	0.03137	0.18863	0.66471
	B0N->Y (RR)	0.03824	0.15710	0.45771

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7L	A0->Y (RF)	0.02260	0.12544	0.46337
	A1->Y (RF)	0.02190	0.12577	0.47894
	B0N->Y (FF)	0.02347	0.08237	0.22801

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	A0	0.00103	0.00111	0.00167
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00007	0.00007	0.00007
	A0	0.00024	0.00032	0.00086
	A1	0.00093	0.00102	0.00165
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00004	0.00004	0.00004
	A1	0.00024	0.00034	0.00096
	B0N	0.00072	0.00114	0.00249
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00005	0.00005	0.00005
	B0N	0.00116	0.00160	0.00298

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	A0	-0.00007	0.00001	0.00052
	A0	0.00007	0.00007	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00069	0.00079	0.00131
	A1	-0.00007	0.00003	0.00068
	A1	0.00007	0.00007	0.00007
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00054	0.00069	0.00135
	B0N	0.00119	0.00166	0.00323
	B0N	0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00074	0.00120	0.00274

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00021	0.00022	0.00023
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A1 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0N * Y)	0.00015	0.00016	0.00016
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00017
	(!A1 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A0 * !B0N * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00022	0.00023	0.00024
	(!A0 * B0N * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00002
	(!A0 * B0N * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A0 * !B0N * !Y)	0.00013	0.00014	0.00014
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0N * Y)	0.00021	0.00021	0.00021
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A0 * A1 * !Y)	-0.00011	0.00028	0.00161
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !Y)	0.00066	0.00106	0.00239

Passive power(pJ) for B0N falling (conditional):

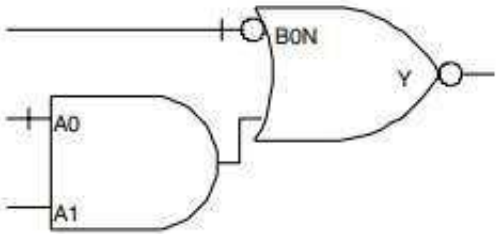
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7L	(A0 * A1 * !Y)	0.00100	0.00145	0.00292
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !Y)	0.00022	0.00068	0.00214

AOI21BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX2H7L	0.00065	0.00076	0.00110	0.03020

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX2H7L	0.00000	1.98342	3.05963

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7L	A0->Y (FR)	0.03301	0.19792	0.69112
	A1->Y (FR)	0.03149	0.19476	0.68738
	B0N->Y (RR)	0.03771	0.16017	0.47291

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7L	A0->Y (RF)	0.02350	0.13417	0.49193
	A1->Y (RF)	0.02302	0.13496	0.51004
	B0N->Y (FF)	0.02205	0.07813	0.21741

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7L	A0	0.00107	0.00117	0.00172
	A0	-0.00009	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00028	0.00036	0.00091
	A1	0.00099	0.00109	0.00171
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00004	0.00005	0.00005
	A1	0.00028	0.00038	0.00100
	B0N	0.00077	0.00127	0.00285
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00005	0.00005	0.00005
	B0N	0.00134	0.00185	0.00348

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7L	A0	-0.00007	0.00001	0.00052
	A0	0.00008	0.00008	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00070	0.00080	0.00132
	A1	-0.00007	0.00003	0.00067
	A1	0.00008	0.00008	0.00009
	A1	-0.00005	-0.00004	-0.00004
	A1	0.00059	0.00071	0.00136
	B0N	0.00133	0.00189	0.00374
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00077	0.00132	0.00312

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00021	0.00022	0.00024
	(!A1 * B0N * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A1 * !B0N * !Y)	0.00012	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0N * Y)	0.00015	0.00015	0.00016
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0N * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A0 * !B0N * !Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00022	0.00023	0.00024
	(!A0 * B0N * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00002
	(!A0 * B0N * Y)	0.00008	0.00008	0.00009
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A0 * !B0N * !Y)	0.00013	0.00014	0.00014
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0N * Y)	0.00022	0.00022	0.00022
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A0 * A1 * !Y)	-0.00014	0.00033	0.00189
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00078	0.00125	0.00281

Passive power(pJ) for B0N falling (conditional):

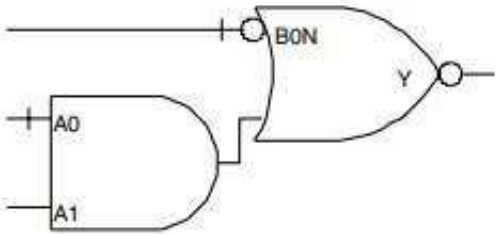
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7L	(A0 * A1 * !Y)	0.00112	0.00166	0.00338
	(A0 * A1 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00021	0.00075	0.00247

AOI21BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX3H7L	0.00074	0.00084	0.00173	0.04063

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX3H7L	0.00000	3.10410	4.45091

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7L	A0->Y (FR)	0.03208	0.19997	0.70410
	A1->Y (FR)	0.03041	0.19691	0.70147
	B0N->Y (RR)	0.03747	0.16136	0.47755

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7L	A0->Y (RF)	0.02353	0.13896	0.50849
	A1->Y (RF)	0.02281	0.13962	0.52848
	B0N->Y (FF)	0.02148	0.07444	0.20589

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7L	A0	0.00149	0.00162	0.00227
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00011	0.00011	0.00011
	A0	0.00056	0.00065	0.00130
	A1	0.00139	0.00151	0.00225
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00006	0.00006	0.00007
	A1	0.00056	0.00068	0.00141
	B0N	0.00113	0.00193	0.00447
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00210	0.00291	0.00554

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7L	A0	-0.00008	0.00000	0.00060
	A0	0.00012	0.00012	0.00012
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00083	0.00095	0.00156
	A1	-0.00009	0.00004	0.00079
	A1	0.00012	0.00012	0.00012
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00066	0.00084	0.00161
	B0N	0.00209	0.00299	0.00595
	B0N	0.00000	0.00000	0.00002
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00114	0.00202	0.00490

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A1 * !B0N * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00024	0.00024	0.00026
	(!A1 * B0N * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0N * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A1 * !B0N * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0N * Y)	0.00017	0.00018	0.00019
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0N * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A0 * !B0N * !Y)	-0.00015	-0.00014	-0.00011
	(A0 * !B0N * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00025	0.00026	0.00026
	(!A0 * B0N * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0N * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A0 * !B0N * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	0.00025	0.00025	0.00025
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A0 * A1 * !Y)	-0.00021	0.00055	0.00303
	(A0 * A1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !Y)	0.00121	0.00197	0.00446

Passive power(pJ) for B0N falling (conditional):

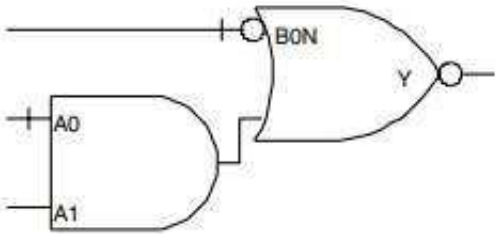
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7L	(A0 * A1 * !Y)	0.00179	0.00265	0.00539
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !Y)	0.00038	0.00122	0.00397

AOI21BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX4H7L	0.00085	0.00095	0.00200	0.04945

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX4H7L	0.00000	3.79188	5.37467

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7L	A0->Y (FR)	0.02980	0.19871	0.70694
	A1->Y (FR)	0.02799	0.19540	0.70391
	B0N->Y (RR)	0.03357	0.15669	0.47402

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7L	A0->Y (RF)	0.02173	0.13640	0.50529
	A1->Y (RF)	0.02097	0.13702	0.52660
	B0N->Y (FF)	0.01909	0.06970	0.19650

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7L	A0	0.00175	0.00186	0.00265
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00013	0.00014	0.00014
	A0	0.00062	0.00073	0.00151
	A1	0.00160	0.00173	0.00263
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00008	0.00008	0.00009
	A1	0.00063	0.00077	0.00166
	B0N	0.00125	0.00228	0.00552
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00008	0.00008	0.00008
	B0N	0.00236	0.00341	0.00678

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7L	A0	-0.00010	0.00000	0.00071
	A0	0.00016	0.00016	0.00016
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00097	0.00111	0.00183
	A1	-0.00010	0.00004	0.00094
	A1	0.00016	0.00016	0.00016
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00077	0.00097	0.00189
	B0N	0.00236	0.00351	0.00729
	B0N	-0.00000	0.00000	0.00002
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00126	0.00239	0.00607

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A1 * !B0N * !Y)	-0.00016	-0.00014	-0.00012
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00026	0.00027	0.00029
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A1 * !B0N * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0N * Y)	0.00020	0.00021	0.00021
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0N * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A0 * !B0N * !Y)	-0.00018	-0.00016	-0.00013
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00027	0.00028	0.00029
	(!A0 * B0N * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A0 * !B0N * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00028	0.00028	0.00029
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A0 * A1 * !Y)	-0.00026	0.00071	0.00387
	(A0 * A1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !Y)	0.00140	0.00237	0.00553

Passive power(pJ) for B0N falling (conditional):

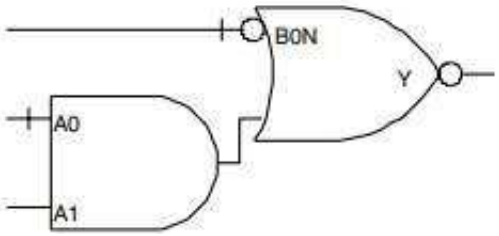
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7L	(A0 * A1 * !Y)	0.00203	0.00314	0.00663
	(A0 * A1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !Y)	0.00038	0.00148	0.00497

AOI21BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX6H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX6H7L	0.00095	0.00103	0.00292	0.06215

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX6H7L	0.00000	5.56768	7.55122

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7L	A0->Y (FR)	0.02899	0.19969	0.71494
	A1->Y (FR)	0.02706	0.19644	0.71255
	B0N->Y (RR)	0.03285	0.15699	0.47666

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7L	A0->Y (RF)	0.02265	0.14350	0.52875
	A1->Y (RF)	0.02167	0.14408	0.54840
	B0N->Y (FF)	0.01787	0.06460	0.18189

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7L	A0	0.00213	0.00236	0.00329
	A0	-0.00023	-0.00023	-0.00019
	A0	0.00018	0.00018	0.00019
	A0	0.00089	0.00102	0.00193
	A1	0.00199	0.00219	0.00324
	A1	-0.00023	-0.00023	-0.00023
	A1	0.00011	0.00012	0.00012
	A1	0.00090	0.00106	0.00210
	B0N	0.00165	0.00321	0.00810
	B0N	-0.00000	0.00000	0.00001
	B0N	0.00009	0.00009	0.00009
	B0N	0.00339	0.00498	0.01006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7L	A0	-0.00012	0.00000	0.00082
	A0	0.00023	0.00023	0.00023
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00115	0.00132	0.00215
	A1	-0.00012	0.00005	0.00110
	A1	0.00023	0.00023	0.00023
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00093	0.00114	0.00221
	B0N	0.00340	0.00515	0.01083
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00169	0.00341	0.00895

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A1 * !B0N * !Y)	-0.00019	-0.00017	-0.00014
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00029	0.00030	0.00032
	(!A1 * B0N * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00028	0.00029	0.00029
	(!A1 * !B0N * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A1 * !B0N * !Y)	0.00020	0.00021	0.00021
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0N * Y)	0.00023	0.00024	0.00025
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0N * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0N * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A0 * !B0N * !Y)	-0.00020	-0.00018	-0.00015
	(A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00000
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00029	0.00030	0.00031
	(!A0 * B0N * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	0.00008	0.00008	0.00009
	(!A0 * !B0N * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0N * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A0 * !B0N * !Y)	0.00021	0.00022	0.00023
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0N * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0N * Y)	0.00031	0.00031	0.00032
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A0 * A1 * !Y)	-0.00039	0.00108	0.00586
	(A0 * A1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * !Y)	0.00203	0.00350	0.00828

Passive power(pJ) for B0N falling (conditional):

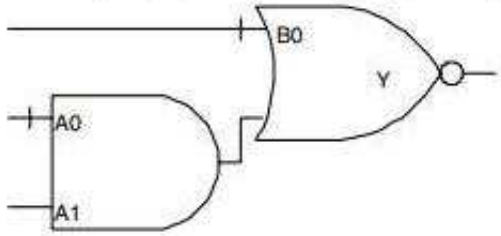
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7L	(A0 * A1 * !Y)	0.00292	0.00459	0.00985
	(A0 * A1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * A1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !Y)	0.00051	0.00218	0.00743

AOI21X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P5H7L	0.00067	0.00074	0.00079	0.02260

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P5H7L	0.00000	0.75371	2.18383

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7L	A0->Y (FR)	0.03496	0.18537	0.63184
	A1->Y (FR)	0.03236	0.18103	0.62717
	B0->Y (FR)	0.03001	0.18223	0.63993

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7L	A0->Y (RF)	0.02080	0.10800	0.40216
	A1->Y (RF)	0.01979	0.10793	0.41752
	B0->Y (RF)	-0.00374	0.06864	0.30527

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	A0	0.00095	0.00103	0.00157
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	0.00004	0.00058
	A1	0.00083	0.00093	0.00155
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00003	0.00003	0.00003
	A1	-0.00001	0.00009	0.00071
	B0	0.00055	0.00072	0.00169
	B0	-0.00001	-0.00001	0.00000
	B0	0.00006	0.00006	0.00006
	B0	-0.00009	0.00009	0.00106

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	A0	-0.00007	0.00001	0.00052
	A0	0.00005	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00088	0.00097	0.00148
	A1	-0.00007	0.00004	0.00068
	A1	0.00005	0.00006	0.00006
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00071	0.00084	0.00149
	B0	-0.00009	0.00007	0.00097
	B0	0.00000	0.00001	0.00002
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00064	0.00081	0.00163

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A1 * B0 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A0 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00021	0.00022	0.00023
	(!A0 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A0 * B0 * !Y)	0.00010	0.00010	0.00011
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

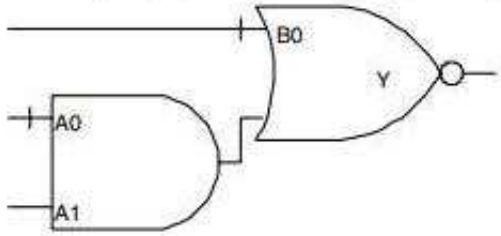
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00030	-0.00029	-0.00029

AOI21X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P7H7L	0.00072	0.00079	0.00083	0.02563

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P7H7L	0.00000	0.80312	2.32782

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7L	A0->Y (FR)	0.03263	0.18360	0.63177
	A1->Y (FR)	0.02990	0.17916	0.62782
	B0->Y (FR)	0.02792	0.18075	0.64163

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7L	A0->Y (RF)	0.01922	0.10561	0.39975
	A1->Y (RF)	0.01817	0.10549	0.41612
	B0->Y (RF)	-0.00660	0.06735	0.30437

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	A0	0.00101	0.00110	0.00170
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	0.00004	0.00064
	A1	0.00087	0.00098	0.00169
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00003	0.00003	0.00004
	A1	-0.00002	0.00009	0.00079
	B0	0.00057	0.00077	0.00186
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00007	0.00007	0.00007
	B0	-0.00010	0.00010	0.00119

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	A0	-0.00008	0.00001	0.00058
	A0	0.00006	0.00006	0.00006
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00095	0.00104	0.00162
	A1	-0.00008	0.00004	0.00076
	A1	0.00006	0.00006	0.00006
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00076	0.00090	0.00163
	B0	-0.00010	0.00007	0.00109
	B0	0.00001	0.00002	0.00002
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00068	0.00088	0.00179

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A1 * B0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00023	0.00024	0.00026
	(!A1 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A1 * B0 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A0 * B0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A0 * B0 * !Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00030	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

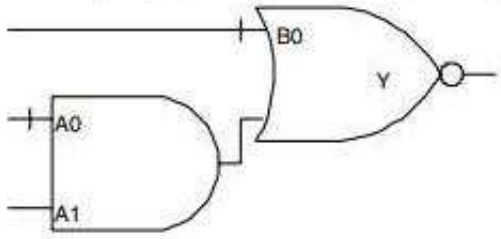
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00031	-0.00031	-0.00030

AOI21X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1H7L	0.00079	0.00087	0.00092	0.03040

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1H7L	0.00000	0.88607	2.56913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7L	A0->Y (FR)	0.03007	0.18168	0.63450
	A1->Y (FR)	0.02729	0.17709	0.63016
	B0->Y (FR)	0.02584	0.17931	0.64275

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7L	A0->Y (RF)	0.01787	0.10468	0.40260
	A1->Y (RF)	0.01683	0.10449	0.41796
	B0->Y (RF)	-0.00885	0.06710	0.30681

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7L	A0	0.00112	0.00123	0.00193
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00008	0.00009	0.00009
	A0	-0.00007	0.00004	0.00074
	A1	0.00096	0.00110	0.00193
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00004	0.00004	0.00004
	A1	-0.00005	0.00009	0.00092
	B0	0.00064	0.00086	0.00213
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	-0.00011	0.00012	0.00138

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7L	A0	-0.00010	0.00000	0.00067
	A0	0.00007	0.00008	0.00008
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00105	0.00117	0.00183
	A1	-0.00010	0.00005	0.00087
	A1	0.00008	0.00008	0.00008
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00086	0.00102	0.00185
	B0	-0.00011	0.00009	0.00126
	B0	0.00001	0.00002	0.00002
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00076	0.00098	0.00205

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A1 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00024	0.00025	0.00027
	(!A1 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A1 * B0 * !Y)	0.00015	0.00016	0.00016
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A0 * B0 * !Y)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A0 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for B0 falling (conditional):

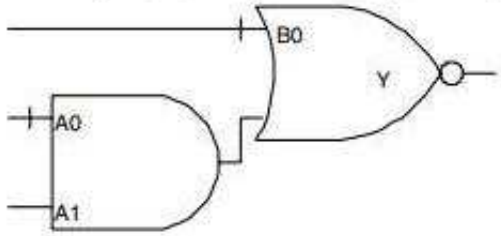
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00033	-0.00033	-0.00033

AOI21X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1P4H7L	0.00085	0.00094	0.00099	0.03459

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1P4H7L	0.00000	0.97829	2.83896

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7L	A0->Y (FR)	0.02858	0.18054	0.63516
	A1->Y (FR)	0.02567	0.17579	0.63083
	B0->Y (FR)	0.02461	0.17853	0.64518

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7L	A0->Y (RF)	0.01681	0.10263	0.39902
	A1->Y (RF)	0.01580	0.10243	0.41467
	B0->Y (RF)	-0.01117	0.06606	0.30558

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	A0	0.00123	0.00135	0.00216
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	0.00005	0.00085
	A1	0.00105	0.00120	0.00215
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	-0.00006	0.00009	0.00104
	B0	0.00070	0.00095	0.00240
	B0	-0.00003	-0.00002	-0.00002
	B0	0.00010	0.00010	0.00010
	B0	-0.00012	0.00014	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	A0	-0.00011	0.00001	0.00075
	A0	0.00009	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00114	0.00128	0.00203
	A1	-0.00011	0.00005	0.00099
	A1	0.00009	0.00009	0.00009
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00092	0.00112	0.00207
	B0	-0.00012	0.00011	0.00143
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00084	0.00109	0.00229

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A1 * B0 * !Y)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00029
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00020	0.00021	0.00023
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A0 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00026	0.00027	0.00028
	(!A0 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A0 * B0 * !Y)	0.00015	0.00015	0.00016
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

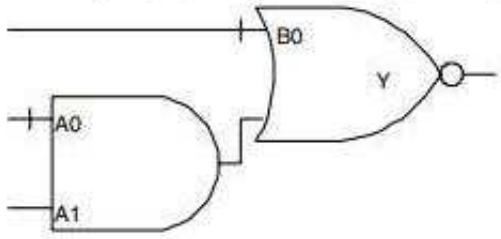
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00036	-0.00036	-0.00036

AOI21X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X2H7L	0.00096	0.00104	0.00108	0.04074

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X2H7L	0.00000	1.13672	3.29833

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7L	A0->Y (FR)	0.02650	0.17881	0.63456
	A1->Y (FR)	0.02339	0.17374	0.63084
	B0->Y (FR)	0.02254	0.17703	0.64684

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7L	A0->Y (RF)	0.01532	0.09913	0.39301
	A1->Y (RF)	0.01027	0.09876	0.40761
	B0->Y (RF)	-0.01579	0.06382	0.30088

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7L	A0	0.00136	0.00151	0.00248
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00012	0.00012	0.00012
	A0	-0.00013	0.00002	0.00099
	A1	0.00114	0.00133	0.00248
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00006	0.00006	0.00006
	A1	-0.00010	0.00009	0.00124
	B0	0.00075	0.00105	0.00278
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00012	0.00012	0.00012
	B0	-0.00014	0.00017	0.00188

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7L	A0	-0.00013	0.00001	0.00090
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00130	0.00146	0.00236
	A1	-0.00013	0.00006	0.00118
	A1	0.00011	0.00011	0.00011
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00104	0.00126	0.00239
	B0	-0.00014	0.00013	0.00171
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00093	0.00121	0.00265

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A1 * B0 * !Y)	-0.00019	-0.00017	-0.00013
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00029	0.00030	0.00032
	(!A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00026	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A0 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00028	0.00028	0.00030
	(!A0 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A0 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

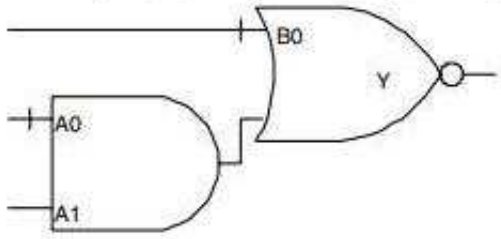
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00038	-0.00037	-0.00037

AOI21X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X3H7L	0.00159	0.00167	0.00174	0.06314

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X3H7L	0.00000	1.84605	5.36395

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7L	A0->Y (FR)	0.02802	0.18010	0.63542
	A1->Y (FR)	0.02311	0.17336	0.63011
	B0->Y (FR)	0.02309	0.17748	0.64377

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7L	A0->Y (RF)	0.01543	0.10146	0.39719
	A1->Y (RF)	0.00959	0.09993	0.41294
	B0->Y (RF)	-0.01358	0.06416	0.30286

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7L	A0	0.00247	0.00270	0.00421
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00018	0.00018	0.00018
	A0	-0.00005	0.00019	0.00169
	A1	0.00196	0.00226	0.00411
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00007	0.00009	0.00009
	A1	-0.00009	0.00019	0.00204
	B0	0.00178	0.00218	0.00454
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00018	0.00018	0.00018
	B0	-0.00029	0.00022	0.00298

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7L	A0	-0.00020	0.00001	0.00139
	A0	0.00016	0.00016	0.00016
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00222	0.00248	0.00387
	A1	-0.00020	0.00010	0.00190
	A1	0.00016	0.00016	0.00016
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00179	0.00210	0.00392
	B0	-0.00019	0.00025	0.00280
	B0	0.00003	0.00004	0.00007
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00163	0.00215	0.00443

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A1 * B0 * !Y)	-0.00028	-0.00024	-0.00019
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00054	0.00055	0.00058
	(!A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00049	0.00049	0.00049
	(!A1 * !B0 * Y)	-0.00034	-0.00033	-0.00033
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00053	-0.00053	-0.00053
	(!A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00049	-0.00048	-0.00046
	(!A1 * !B0 * Y)	0.00035	0.00037	0.00040
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00048	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A0 * B0 * !Y)	-0.00028	-0.00025	-0.00019
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00053	0.00054	0.00057
	(!A0 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A0 * B0 * !Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0 * B0 * !Y)	0.00034	0.00035	0.00035
	(!A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !Y)	-0.00048	-0.00047	-0.00044
	(!A0 * !B0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !Y)	0.00068	0.00069	0.00069

Passive power(pJ) for B0 falling (conditional):

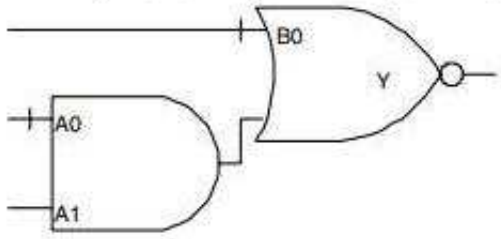
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !Y)	-0.00069	-0.00068	-0.00067

AOI21X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X4H7L	0.00188	0.00195	0.00204	0.08080

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X4H7L	0.00000	2.27343	6.59665

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7L	A0->Y (FR)	0.02537	0.17774	0.63529
	A1->Y (FR)	0.02075	0.17133	0.63079
	B0->Y (FR)	0.02084	0.17573	0.64582

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7L	A0->Y (RF)	0.00962	0.09818	0.39286
	A1->Y (RF)	0.00374	0.09692	0.40776
	B0->Y (RF)	-0.01776	0.06243	0.29988

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7L	A0	0.00288	0.00318	0.00515
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00023	0.00023	0.00024
	A0	-0.00015	0.00016	0.00211
	A1	0.00229	0.00266	0.00508
	A1	-0.00022	-0.00021	-0.00021
	A1	0.00008	0.00012	0.00013
	A1	-0.00020	0.00017	0.00258
	B0	0.00145	0.00207	0.00564
	B0	-0.00006	-0.00005	-0.00004
	B0	0.00023	0.00023	0.00024
	B0	-0.00036	0.00028	0.00382

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7L	A0	-0.00026	0.00001	0.00180
	A0	0.00021	0.00021	0.00022
	A0	-0.00024	-0.00023	-0.00023
	A0	0.00270	0.00299	0.00479
	A1	-0.00026	0.00013	0.00242
	A1	0.00021	0.00021	0.00022
	A1	-0.00012	-0.00012	-0.00008
	A1	0.00209	0.00253	0.00485
	B0	-0.00026	0.00031	0.00356
	B0	0.00005	0.00006	0.00009
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00196	0.00257	0.00549

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A1 * B0 * !Y)	-0.00035	-0.00031	-0.00025
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00061	0.00063	0.00065
	(!A1 * B0 * !Y)	-0.00043	-0.00042	-0.00042
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00055	0.00056	0.00056
	(!A1 * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00059	0.00060	0.00060

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A1 * B0 * !Y)	0.00036	0.00037	0.00037
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(!A1 * B0 * !Y)	0.00042	0.00042	0.00043
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00056	-0.00054	-0.00052
	(!A1 * !B0 * Y)	0.00044	0.00047	0.00050
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00055	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A0 * B0 * !Y)	-0.00036	-0.00032	-0.00025
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00060	0.00061	0.00064
	(!A0 * B0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00054	0.00055	0.00055
	(!A0 * !B0 * Y)	-0.00062	-0.00061	-0.00061
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A0 * B0 * !Y)	0.00037	0.00038	0.00038
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00059	-0.00059	-0.00059
	(!A0 * B0 * !Y)	0.00043	0.00043	0.00044
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00055	-0.00053	-0.00050
	(!A0 * !B0 * Y)	0.00062	0.00062	0.00062
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00078	0.00078	0.00078

Passive power(pJ) for B0 falling (conditional):

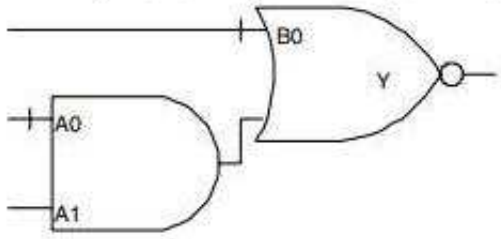
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00078	-0.00078	-0.00077

AOI21X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X6H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X6H7L	0.00276	0.00291	0.00301	0.12119

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X6H7L	0.00000	3.41015	9.89496

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7L	A0->Y (FR)	0.02376	0.17606	0.63467
	A1->Y (FR)	0.01967	0.17034	0.63046
	B0->Y (FR)	0.01940	0.17427	0.64688

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7L	A0->Y (RF)	0.00660	0.09750	0.39293
	A1->Y (RF)	0.00176	0.09707	0.41097
	B0->Y (RF)	-0.02109	0.06167	0.29953

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7L	A0	0.00417	0.00463	0.00766
	A0	-0.00032	-0.00032	-0.00032
	A0	0.00035	0.00035	0.00036
	A0	-0.00034	0.00013	0.00313
	A1	0.00338	0.00396	0.00765
	A1	-0.00032	-0.00032	-0.00032
	A1	0.00015	0.00017	0.00018
	A1	-0.00037	0.00022	0.00388
	B0	0.00218	0.00311	0.00853
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00035	0.00035	0.00035
	B0	-0.00053	0.00045	0.00581

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7L	A0	-0.00039	0.00003	0.00278
	A0	0.00032	0.00032	0.00032
	A0	-0.00036	-0.00035	-0.00035
	A0	0.00391	0.00446	0.00724
	A1	-0.00039	0.00019	0.00366
	A1	0.00032	0.00032	0.00032
	A1	-0.00017	-0.00017	-0.00015
	A1	0.00312	0.00381	0.00733
	B0	-0.00061	0.00045	0.00540
	B0	0.00006	0.00009	0.00044
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00290	0.00382	0.00828

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A1 * B0 * !Y)	-0.00053	-0.00047	-0.00038
	(A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00089	0.00092	0.00097
	(!A1 * B0 * !Y)	-0.00064	-0.00064	-0.00063
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00082	0.00082	0.00083
	(!A1 * !B0 * Y)	-0.00064	-0.00063	-0.00063
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00088	0.00088	0.00088

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A1 * B0 * !Y)	0.00055	0.00056	0.00056
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00089	-0.00088	-0.00088
	(!A1 * B0 * !Y)	0.00063	0.00064	0.00064
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00082	-0.00079	-0.00076
	(!A1 * !B0 * Y)	0.00066	0.00070	0.00074
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00081	-0.00076	-0.00070

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A0 * B0 * !Y)	-0.00053	-0.00047	-0.00038
	(A0 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00091	0.00093	0.00098
	(!A0 * B0 * !Y)	-0.00065	-0.00064	-0.00064
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !Y)	0.00083	0.00084	0.00084
	(!A0 * !B0 * Y)	-0.00093	-0.00092	-0.00092
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A0 * B0 * !Y)	0.00056	0.00056	0.00057
	(A0 * B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00091	-0.00090	-0.00089
	(!A0 * B0 * !Y)	0.00064	0.00064	0.00065
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !Y)	-0.00083	-0.00081	-0.00078
	(!A0 * !B0 * Y)	0.00093	0.00093	0.00094
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00115	0.00116	0.00116

Passive power(pJ) for B0 falling (conditional):

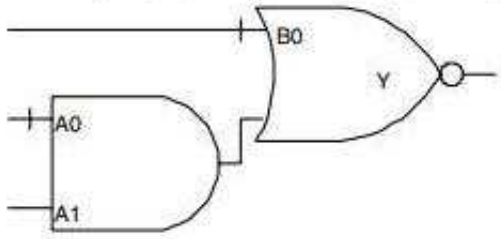
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00116	-0.00115	-0.00114

AOI21X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X8H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X8H7L	0.00367	0.00385	0.00395	0.16138

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X8H7L	0.00000	4.54687	13.19330

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7L	A0->Y (FR)	0.02325	0.17557	0.63479
	A1->Y (FR)	0.01887	0.16942	0.62999
	B0->Y (FR)	0.01871	0.17363	0.64598

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7L	A0->Y (RF)	0.00466	0.09702	0.39265
	A1->Y (RF)	-0.00042	0.09632	0.41074
	B0->Y (RF)	-0.02209	0.06121	0.29950

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7L	A0	0.00555	0.00616	0.01021
	A0	-0.00043	-0.00043	-0.00042
	A0	0.00047	0.00047	0.00047
	A0	-0.00047	0.00017	0.00418
	A1	0.00442	0.00520	0.01019
	A1	-0.00043	-0.00043	-0.00042
	A1	0.00020	0.00023	0.00025
	A1	-0.00058	0.00023	0.00519
	B0	0.00279	0.00405	0.01136
	B0	-0.00011	-0.00011	-0.00007
	B0	0.00047	0.00047	0.00047
	B0	-0.00078	0.00053	0.00777

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7L	A0	-0.00053	0.00003	0.00372
	A0	0.00042	0.00043	0.00043
	A0	-0.00047	-0.00047	-0.00047
	A0	0.00533	0.00594	0.00966
	A1	-0.00053	0.00026	0.00493
	A1	0.00042	0.00043	0.00043
	A1	-0.00023	-0.00023	-0.00020
	A1	0.00414	0.00507	0.00980
	B0	-0.00055	0.00061	0.00728
	B0	0.00010	0.00011	0.00016
	B0	-0.00024	-0.00023	-0.00023
	B0	0.00386	0.00506	0.01105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A1 * B0 * !Y)	-0.00071	-0.00063	-0.00050
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !Y)	0.00118	0.00122	0.00127
	(!A1 * B0 * !Y)	-0.00086	-0.00086	-0.00085
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00004	0.00004	0.00006
	(!A1 * B0 * !Y)	0.00106	0.00108	0.00109
	(!A1 * !B0 * Y)	-0.00085	-0.00085	-0.00085
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00116	0.00116	0.00117

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A1 * B0 * !Y)	0.00074	0.00075	0.00076
	(A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00117	-0.00117	-0.00116
	(!A1 * B0 * !Y)	0.00086	0.00086	0.00086
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !Y)	-0.00006	-0.00004	-0.00004
	(!A1 * B0 * !Y)	-0.00108	-0.00105	-0.00101
	(!A1 * !B0 * Y)	0.00089	0.00094	0.00100
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * Y)	-0.00107	-0.00101	-0.00090

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A0 * B0 * !Y)	-0.00071	-0.00063	-0.00051
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !Y)	0.00119	0.00123	0.00129
	(!A0 * B0 * !Y)	-0.00087	-0.00086	-0.00086
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !Y)	0.00109	0.00110	0.00110
	(!A0 * !B0 * Y)	-0.00125	-0.00124	-0.00123
	(!A0 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A0 * B0 * !Y)	0.00075	0.00076	0.00076
	(A0 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00119	-0.00118	-0.00117
	(!A0 * B0 * !Y)	0.00086	0.00087	0.00087
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !Y)	-0.00110	-0.00106	-0.00102
	(!A0 * !B0 * Y)	0.00124	0.00125	0.00126
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !Y)	0.00151	0.00152	0.00152

Passive power(pJ) for B0 falling (conditional):

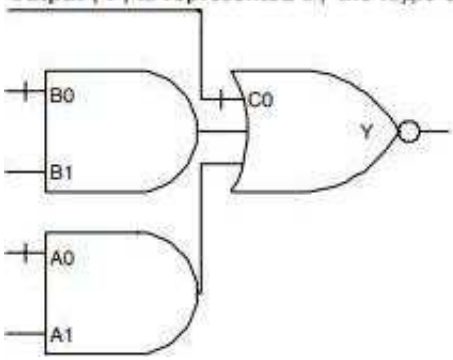
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7L	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00152	-0.00151	-0.00149

AOI221X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P5H7L	0.00068	0.00073	0.00067	0.00076	0.00078	0.01484

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P5H7L	0.00000	0.76121	3.27660

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7L	A0->Y (FR)	0.07158	0.21314	0.60642
	A1->Y (FR)	0.06783	0.20822	0.60245
	B0->Y (FR)	0.06580	0.21351	0.63843
	B1->Y (FR)	0.06244	0.20851	0.63440
	C0->Y (FR)	0.05406	0.20297	0.63376

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7L	A0->Y (RF)	0.02682	0.09443	0.31746
	A1->Y (RF)	0.02594	0.09448	0.32699
	B0->Y (RF)	0.02497	0.08978	0.31103
	B1->Y (RF)	0.02428	0.08963	0.32005
	C0->Y (RF)	0.00362	0.05638	0.23153

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7L	A0	0.00160	0.00165	0.00198
	A0	-0.00011	-0.00010	-0.00010
	A0	0.00011	0.00011	0.00011
	A0	0.00010	0.00016	0.00052
	A1	0.00149	0.00155	0.00192
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00008	0.00008	0.00008
	A1	0.00008	0.00016	0.00057
	B0	0.00127	0.00134	0.00172
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00011	0.00011	0.00011
	B0	0.00008	0.00015	0.00060
	B1	0.00116	0.00124	0.00165
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00008	0.00008	0.00008
	B1	0.00007	0.00017	0.00066
	C0	0.00099	0.00111	0.00173
	C0	-0.00002	-0.00001	0.00000
	C0	0.00011	0.00011	0.00011
	C0	-0.00003	0.00013	0.00094

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7L	A0	-0.00007	-0.00000	0.00040
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00134	0.00143	0.00182
	A1	-0.00007	0.00002	0.00054
	A1	0.00011	0.00011	0.00011
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00124	0.00135	0.00185
	B0	-0.00005	0.00002	0.00046
	B0	0.00005	0.00005	0.00006
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00112	0.00120	0.00160
	B1	-0.00005	0.00006	0.00060
	B1	0.00005	0.00006	0.00006
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00100	0.00111	0.00161
	C0	-0.00008	0.00007	0.00085
	C0	0.00000	0.00002	0.00007
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00093	0.00107	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(A1 * B0 * B1 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B1 * C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * B1 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * B0 * B1 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B1 * C0 * !Y)	-0.00011	-0.00009	-0.00006
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00009	-0.00006
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * B0 * B1 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	0.00017	0.00018	0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00014	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00009
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

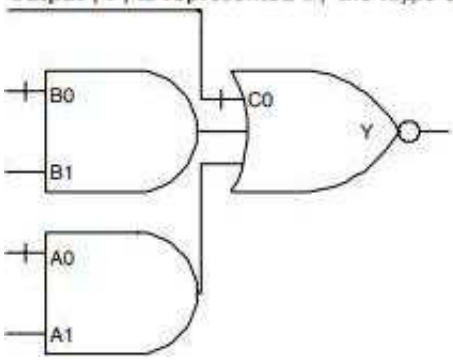
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00030	-0.00029	-0.00029

AOI221X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P7H7L	0.00072	0.00079	0.00067	0.00082	0.00083	0.01679

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P7H7L	0.00000	0.81199	3.49278

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7L	A0->Y (FR)	0.06677	0.20913	0.60649
	A1->Y (FR)	0.06299	0.20423	0.60133
	B0->Y (FR)	0.06002	0.20876	0.63742
	B1->Y (FR)	0.05729	0.20431	0.63262
	C0->Y (FR)	0.05157	0.20121	0.63592

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7L	A0->Y (RF)	0.02467	0.09152	0.31434
	A1->Y (RF)	0.02388	0.09155	0.32394
	B0->Y (RF)	0.02237	0.08641	0.30803
	B1->Y (RF)	0.02210	0.08650	0.31714
	C0->Y (RF)	0.00112	0.05516	0.23080

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7L	A0	0.00170	0.00176	0.00214
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00013	0.00013	0.00013
	A0	0.00006	0.00013	0.00055
	A1	0.00158	0.00166	0.00208
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00009	0.00009	0.00009
	A1	0.00005	0.00014	0.00062
	B0	0.00132	0.00140	0.00185
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00013	0.00013	0.00013
	B0	0.00005	0.00014	0.00065
	B1	0.00121	0.00130	0.00178
	B1	-0.00006	-0.00006	-0.00003
	B1	0.00009	0.00009	0.00009
	B1	0.00004	0.00015	0.00072
	C0	0.00108	0.00121	0.00190
	C0	-0.00002	-0.00002	0.00000
	C0	0.00013	0.00013	0.00013
	C0	-0.00003	0.00015	0.00105

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7L	A0	-0.00008	-0.00000	0.00045
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00146	0.00155	0.00199
	A1	-0.00008	0.00002	0.00061
	A1	0.00012	0.00012	0.00012
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00133	0.00146	0.00203
	B0	-0.00006	0.00002	0.00052
	B0	0.00006	0.00006	0.00006
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00118	0.00127	0.00173
	B1	-0.00005	0.00006	0.00068
	B1	0.00003	0.00006	0.00006
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00106	0.00119	0.00176
	C0	-0.00008	0.00008	0.00095
	C0	0.00001	0.00002	0.00003
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00101	0.00117	0.00190

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * B0 * B1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B1 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * B1 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * B1 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * B0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B1 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * B1 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * B0 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for C0 falling (conditional):

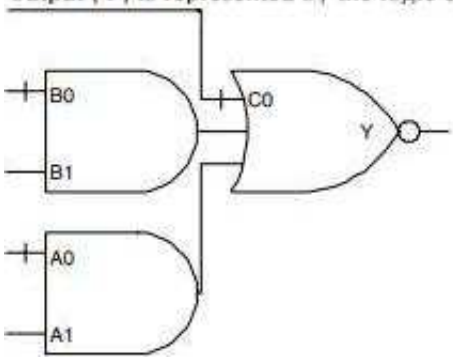
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00031	-0.00031	-0.00030

AOI221X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1H7L	0.00079	0.00085	0.00079	0.00088	0.00089	0.01999

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1H7L	0.00000	0.89690	3.85503

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7L	A0->Y (FR)	0.06249	0.20637	0.60954
	A1->Y (FR)	0.05838	0.20113	0.60343
	B0->Y (FR)	0.05729	0.20741	0.64260
	B1->Y (FR)	0.05340	0.20189	0.63751
	C0->Y (FR)	0.04625	0.19741	0.63594

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7L	A0->Y (RF)	0.02284	0.09032	0.31632
	A1->Y (RF)	0.02186	0.09017	0.32678
	B0->Y (RF)	0.02136	0.08596	0.31109
	B1->Y (RF)	0.02051	0.08558	0.32067
	C0->Y (RF)	-0.00225	0.05423	0.23361

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7L	A0	0.00191	0.00198	0.00242
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00015	0.00015	0.00015
	A0	0.00008	0.00015	0.00064
	A1	0.00176	0.00185	0.00235
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00011	0.00011	0.00011
	A1	0.00006	0.00016	0.00073
	B0	0.00151	0.00160	0.00211
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00015	0.00015	0.00015
	B0	0.00006	0.00016	0.00074
	B1	0.00136	0.00147	0.00204
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00011	0.00011	0.00011
	B1	0.00006	0.00018	0.00085
	C0	0.00117	0.00133	0.00215
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00015	0.00015	0.00015
	C0	-0.00005	0.00016	0.00123

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7L	A0	-0.00009	-0.00001	0.00052
	A0	0.00015	0.00015	0.00015
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00164	0.00174	0.00224
	A1	-0.00009	0.00003	0.00070
	A1	0.00015	0.00015	0.00015
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00147	0.00163	0.00229
	B0	-0.00007	0.00003	0.00059
	B0	0.00008	0.00008	0.00009
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00136	0.00146	0.00198
	B1	-0.00006	0.00007	0.00078
	B1	0.00006	0.00008	0.00009
	B1	-0.00006	-0.00006	-0.00003
	B1	0.00120	0.00134	0.00200
	C0	-0.00010	0.00009	0.00111
	C0	0.00001	0.00002	0.00004
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00112	0.00128	0.00214

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * B0 * B1 * !C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00012	-0.00009
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * B1 * !C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00026
	(A0 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	0.00020	0.00021	0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00020	0.00021	0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C0 falling (conditional):

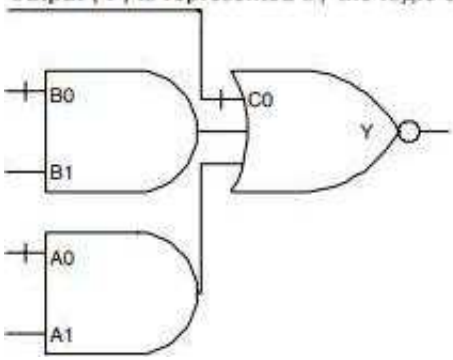
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00032

AOI221X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1P4H7L	0.00087	0.00093	0.00086	0.00097	0.00097	0.02271

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1P4H7L	0.00000	0.99113	4.26005

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7L	A0->Y (FR)	0.05906	0.20344	0.60904
	A1->Y (FR)	0.05485	0.19812	0.60355
	B0->Y (FR)	0.05332	0.20409	0.64220
	B1->Y (FR)	0.04951	0.19859	0.63655
	C0->Y (FR)	0.04421	0.19603	0.63817

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7L	A0->Y (RF)	0.02129	0.08785	0.31317
	A1->Y (RF)	0.02033	0.08764	0.32265
	B0->Y (RF)	0.01965	0.08321	0.30809
	B1->Y (RF)	0.01882	0.08284	0.31794
	C0->Y (RF)	-0.00503	0.05302	0.23185

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7L	A0	0.00207	0.00215	0.00266
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	0.00004	0.00013	0.00069
	A1	0.00190	0.00201	0.00260
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00012	0.00012	0.00013
	A1	0.00002	0.00014	0.00080
	B0	0.00163	0.00173	0.00233
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00017	0.00017	0.00017
	B0	0.00002	0.00013	0.00082
	B1	0.00145	0.00157	0.00224
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00012	0.00012	0.00012
	B1	0.00002	0.00016	0.00094
	C0	0.00129	0.00147	0.00240
	C0	-0.00002	-0.00002	0.00000
	C0	0.00017	0.00017	0.00017
	C0	-0.00006	0.00018	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7L	A0	-0.00011	-0.00001	0.00059
	A0	0.00017	0.00017	0.00017
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00179	0.00193	0.00251
	A1	-0.00011	0.00003	0.00080
	A1	0.00017	0.00017	0.00017
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00162	0.00180	0.00255
	B0	-0.00011	0.00002	0.00067
	B0	0.00007	0.00009	0.00011
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00148	0.00160	0.00220
	B1	-0.00009	0.00007	0.00089
	B1	0.00008	0.00009	0.00011
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00129	0.00146	0.00222
	C0	-0.00011	0.00011	0.00126
	C0	0.00000	0.00002	0.00006
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00121	0.00142	0.00239

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00013	-0.00009
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * !C0 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	0.00021	0.00022	0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00015	-0.00014	-0.00010
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * !Y)	-0.00016	-0.00014	-0.00010
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B1 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00015	0.00015	0.00016
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * !Y)	-0.00020	-0.00017	-0.00015
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !C0 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00025	0.00026	0.00027
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00025	0.00026	0.00027
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for C0 falling (conditional):

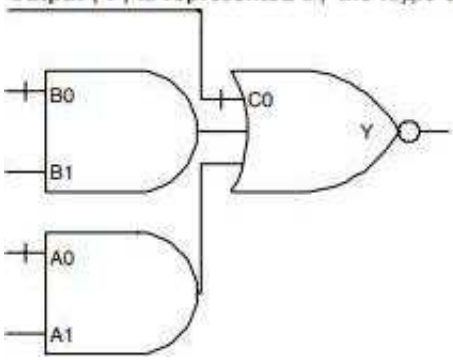
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00035	-0.00035	-0.00035

AOI221X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X2H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X2H7L	0.00098	0.00104	0.00097	0.00106	0.00105	0.02670

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X2H7L	0.00000	1.15272	4.94952

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7L	A0->Y (FR)	0.05605	0.20103	0.60913
	A1->Y (FR)	0.05143	0.19537	0.60378
	B0->Y (FR)	0.05052	0.20198	0.64263
	B1->Y (FR)	0.04602	0.19577	0.63670
	C0->Y (FR)	0.04103	0.19369	0.63859

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7L	A0->Y (RF)	0.01944	0.08450	0.30764
	A1->Y (RF)	0.01837	0.08414	0.31635
	B0->Y (RF)	0.01806	0.07999	0.30218
	B1->Y (RF)	0.01705	0.07934	0.31136
	C0->Y (RF)	-0.00958	0.05082	0.22811

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7L	A0	0.00235	0.00244	0.00306
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00021	0.00021	0.00021
	A0	0.00002	0.00013	0.00082
	A1	0.00213	0.00226	0.00298
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00015	0.00015	0.00015
	A1	0.00000	0.00014	0.00095
	B0	0.00184	0.00196	0.00267
	B0	-0.00011	-0.00011	-0.00008
	B0	0.00021	0.00021	0.00021
	B0	-0.00000	0.00014	0.00096
	B1	0.00162	0.00176	0.00257
	B1	-0.00011	-0.00011	-0.00009
	B1	0.00015	0.00015	0.00015
	B1	-0.00000	0.00017	0.00112
	C0	0.00143	0.00165	0.00276
	C0	-0.00003	-0.00003	-0.00000
	C0	0.00021	0.00021	0.00021
	C0	-0.00008	0.00021	0.00168

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7L	A0	-0.00013	-0.00001	0.00071
	A0	0.00020	0.00021	0.00021
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00206	0.00220	0.00290
	A1	-0.00013	0.00004	0.00096
	A1	0.00020	0.00021	0.00021
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00184	0.00204	0.00294
	B0	-0.00011	0.00002	0.00079
	B0	0.00009	0.00011	0.00012
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00167	0.00182	0.00254
	B1	-0.00012	0.00008	0.00105
	B1	0.00010	0.00011	0.00013
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00148	0.00165	0.00256
	C0	-0.00013	0.00013	0.00150
	C0	0.00003	0.00003	0.00006
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00137	0.00160	0.00275

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00018	-0.00016	-0.00012
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B1 * C0 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * B1 * C0 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00027
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00018	-0.00016	-0.00012
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !B1 * C0 * !Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * !Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00018	0.00018	0.00018
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * !Y)	0.00025	0.00026	0.00028
	(!A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00025	0.00026	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * Y)	0.00027	0.00028	0.00030
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	0.00027	0.00028	0.00030
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00030
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00030
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for C0 falling (conditional):

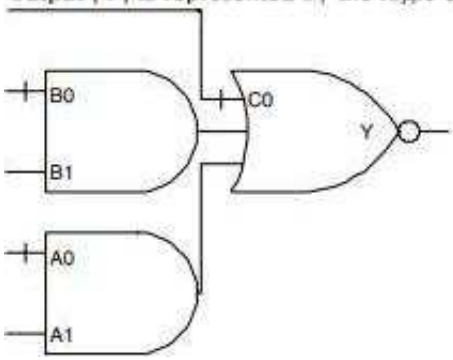
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037

AOI221X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X3H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X3H7L	0.00168	0.00159	0.00162	0.00186	0.00174	0.04180

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X3H7L	0.00000	1.86954	8.04885

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7L	A0->Y (FR)	0.05441	0.19966	0.60861
	A1->Y (FR)	0.04986	0.19387	0.60242
	B0->Y (FR)	0.04865	0.19987	0.64080
	B1->Y (FR)	0.04465	0.19418	0.63535
	C0->Y (FR)	0.03872	0.19140	0.63773

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7L	A0->Y (RF)	0.01889	0.08518	0.31154
	A1->Y (RF)	0.01762	0.08469	0.32131
	B0->Y (RF)	0.01755	0.08035	0.30599
	B1->Y (RF)	0.01576	0.07979	0.31519
	C0->Y (RF)	-0.01247	0.05065	0.23039

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7L	A0	0.00379	0.00394	0.00494
	A0	-0.00031	-0.00031	-0.00030
	A0	0.00032	0.00032	0.00032
	A0	-0.00001	0.00016	0.00126
	A1	0.00342	0.00363	0.00481
	A1	-0.00031	-0.00031	-0.00030
	A1	0.00023	0.00023	0.00023
	A1	0.00003	0.00026	0.00159
	B0	0.00294	0.00314	0.00431
	B0	-0.00016	-0.00015	0.00000
	B0	0.00032	0.00032	0.00032
	B0	-0.00005	0.00018	0.00152
	B1	0.00270	0.00293	0.00426
	B1	-0.00018	-0.00016	0.00000
	B1	0.00023	0.00023	0.00023
	B1	-0.00000	0.00027	0.00183
	C0	0.00228	0.00263	0.00445
	C0	-0.00004	-0.00004	0.00000
	C0	0.00032	0.00032	0.00032
	C0	-0.00022	0.00025	0.00264

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7L	A0	-0.00020	-0.00001	0.00116
	A0	0.00031	0.00032	0.00032
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00339	0.00361	0.00474
	A1	-0.00019	0.00008	0.00158
	A1	0.00031	0.00032	0.00032
	A1	-0.00014	-0.00013	-0.00012
	A1	0.00292	0.00327	0.00473
	B0	-0.00022	0.00004	0.00130
	B0	0.00013	0.00016	0.00020
	B0	-0.00023	-0.00023	-0.00023
	B0	0.00273	0.00297	0.00415
	B1	-0.00028	0.00005	0.00163
	B1	0.00000	0.00016	0.00020
	B1	-0.00014	-0.00013	-0.00006
	B1	0.00236	0.00267	0.00415
	C0	-0.00018	0.00024	0.00247
	C0	0.00000	0.00004	0.00007
	C0	-0.00014	-0.00013	-0.00012
	C0	0.00227	0.00267	0.00453

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00029	-0.00025	-0.00019
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00049	0.00049	0.00050
	(A1 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00025	-0.00019
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00049	0.00049	0.00051
	(A1 * !B1 * C0 * !Y)	-0.00029	-0.00024	-0.00018
	(A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00001
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00049	0.00050	0.00051
	(A1 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00024	-0.00018
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00049	0.00050	0.00051
	(!A1 * B0 * B1 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !Y)	0.00045	0.00046	0.00046
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00046	0.00046	0.00046
	(!A1 * !B1 * !C0 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00049	-0.00049	-0.00048
	(A1 * B0 * B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00049	-0.00048	-0.00048
	(A1 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B1 * C0 * !Y)	0.00001	0.00003	0.00003
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00049	-0.00049	-0.00049
	(A1 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * B1 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00046	-0.00045	-0.00043
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00046	-0.00044	-0.00043
	(!A1 * !B1 * !C0 * Y)	0.00040	0.00042	0.00044
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00043	-0.00042	-0.00041
	(!A1 * !B0 * B1 * !C0 * Y)	0.00040	0.00042	0.00044
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00042	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00026	-0.00023	-0.00018
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00047	0.00047	0.00047
	(A0 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00047	0.00047	0.00047
	(A0 * !B1 * C0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00047	0.00048	0.00048
	(A0 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00047	0.00048	0.00048
	(!A0 * B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * !B1 * C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * !B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * !B1 * !C0 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00044	-0.00043	-0.00041
	(!A0 * !B0 * B1 * !C0 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00052	0.00052	0.00053
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00050	0.00050	0.00050
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00050	0.00050	0.00050
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A1 * B1 * C0 * !Y)	-0.00032	-0.00028	-0.00022
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00048	0.00049	0.00052
	(!A1 * !B1 * !C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00041	0.00042	0.00042
	(!A0 * A1 * B1 * C0 * !Y)	-0.00032	-0.00028	-0.00022
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00048	0.00049	0.00052
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00052	-0.00051	-0.00051
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00049	-0.00048	-0.00047
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00049	-0.00048	-0.00047
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00044	-0.00043	-0.00042
	(!A1 * B1 * C0 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C0 * Y)	0.00043	0.00044	0.00046
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00039	-0.00037	-0.00036
	(!A0 * A1 * B1 * C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * A1 * !B1 * !C0 * Y)	0.00042	0.00044	0.00046
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00039	-0.00037	-0.00036

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00049	0.00049	0.00049
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00049	0.00049	0.00049
	(!A1 * B0 * C0 * !Y)	-0.00038	-0.00034	-0.00028
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00046	0.00047	0.00051
	(!A1 * !B0 * C0 * !Y)	-0.00044	-0.00044	-0.00043
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(!A1 * !B0 * !C0 * Y)	-0.00062	-0.00061	-0.00060
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00038	-0.00034	-0.00028
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00046	0.00048	0.00051
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00044	-0.00044	-0.00043
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00062	-0.00061	-0.00061
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00051	-0.00051	-0.00051
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00049	-0.00048	-0.00046
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00048	-0.00047	-0.00046
	(!A1 * B0 * C0 * !Y)	0.00039	0.00039	0.00040
	(!A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1 * !B0 * C0 * !Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00042	-0.00041	-0.00040
	(!A1 * !B0 * !C0 * Y)	0.00061	0.00062	0.00062
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00039	0.00039	0.00040
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00046	-0.00046	-0.00045
	(!A0 * A1 * !B0 * C0 * !Y)	0.00043	0.00044	0.00044
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00042	-0.00041	-0.00040
	(!A0 * A1 * !B0 * !C0 * Y)	0.00061	0.00062	0.00062
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00067	0.00068	0.00068
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00067	0.00068	0.00068
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00068	0.00068	0.00068
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00067	0.00068	0.00068

Passive power(pJ) for C0 falling (conditional):

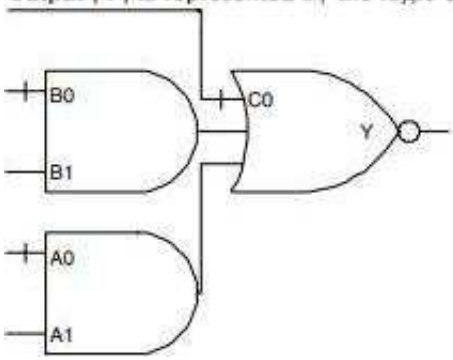
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00068	-0.00067	-0.00066
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00067	-0.00067	-0.00066
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00068	-0.00068	-0.00067

AOI221X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X4H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X4H7L	0.00206	0.00185	0.00183	0.00206	0.00195	0.05336

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X4H7L	0.00000	2.30543	9.89904

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7L	A0->Y (FR)	0.05083	0.19673	0.60843
	A1->Y (FR)	0.04574	0.19039	0.60172
	B0->Y (FR)	0.04493	0.19700	0.64129
	B1->Y (FR)	0.04055	0.19091	0.63534
	C0->Y (FR)	0.03571	0.18936	0.63818

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7L	A0->Y (RF)	0.01727	0.08213	0.30659
	A1->Y (RF)	0.01581	0.08141	0.31611
	B0->Y (RF)	0.01580	0.07726	0.30090
	B1->Y (RF)	0.00998	0.07658	0.31025
	C0->Y (RF)	-0.01608	0.04892	0.22776

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7L	A0	0.00458	0.00478	0.00608
	A0	-0.00041	-0.00041	-0.00040
	A0	0.00042	0.00042	0.00042
	A0	-0.00005	0.00018	0.00162
	A1	0.00408	0.00434	0.00590
	A1	-0.00041	-0.00041	-0.00040
	A1	0.00030	0.00030	0.00031
	A1	0.00002	0.00031	0.00208
	B0	0.00349	0.00374	0.00527
	B0	-0.00021	-0.00021	0.00000
	B0	0.00042	0.00042	0.00042
	B0	-0.00005	0.00024	0.00198
	B1	0.00316	0.00346	0.00521
	B1	-0.00021	-0.00021	0.00000
	B1	0.00030	0.00030	0.00030
	B1	-0.00003	0.00032	0.00237
	C0	0.00272	0.00316	0.00550
	C0	-0.00006	-0.00005	0.00000
	C0	0.00041	0.00042	0.00042
	C0	-0.00024	0.00037	0.00343

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7L	A0	-0.00026	-0.00002	0.00146
	A0	0.00041	0.00042	0.00042
	A0	-0.00030	-0.00030	-0.00030
	A0	0.00411	0.00439	0.00583
	A1	-0.00024	0.00010	0.00201
	A1	0.00041	0.00042	0.00042
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00352	0.00392	0.00579
	B0	-0.00021	0.00007	0.00169
	B0	0.00018	0.00021	0.00024
	B0	-0.00030	-0.00030	-0.00030
	B0	0.00323	0.00355	0.00505
	B1	-0.00028	0.00010	0.00212
	B1	0.00021	0.00021	0.00025
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00280	0.00320	0.00508
	C0	-0.00022	0.00033	0.00317
	C0	0.00004	0.00006	0.00009
	C0	-0.00018	-0.00018	-0.00016
	C0	0.00270	0.00319	0.00557

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00038	-0.00033	-0.00026
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00058	0.00058	0.00059
	(A1 * B0 * B1 * !C0 * !Y)	-0.00038	-0.00033	-0.00025
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00058	0.00059	0.00060
	(A1 * !B1 * C0 * !Y)	-0.00037	-0.00031	-0.00023
	(A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00059	0.00059	0.00060
	(A1 * !B0 * B1 * C0 * !Y)	-0.00037	-0.00031	-0.00023
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00059	0.00060	0.00061
	(!A1 * B0 * B1 * !Y)	-0.00049	-0.00048	-0.00048
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00054	0.00054	0.00055
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00048	-0.00048	-0.00048
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00054	0.00054	0.00055
	(!A1 * !B1 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00055	0.00055	0.00055
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00037	0.00038	0.00038
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A1 * B0 * B1 * !C0 * !Y)	0.00041	0.00041	0.00041
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A1 * !B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A1 * !B0 * B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00058	-0.00058	-0.00057
	(!A1 * B0 * B1 * !Y)	0.00048	0.00048	0.00049
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00054	-0.00053	-0.00051
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00048	0.00048	0.00049
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00054	-0.00053	-0.00051
	(!A1 * !B1 * !C0 * Y)	0.00052	0.00054	0.00056
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00051	-0.00049	-0.00045
	(!A1 * !B0 * B1 * !C0 * Y)	0.00052	0.00054	0.00056
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00051	-0.00049	-0.00046

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * B0 * B1 * C0 * !Y)**	-0.00032	-0.00028	-0.00023
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00053	0.00053	0.00054
	(A0 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00029	-0.00023
	(A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00053	0.00053	0.00054
	(A0 * !B1 * C0 * !Y)	-0.00032	-0.00027	-0.00022
	(A0 * !B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00054	0.00054	0.00055
	(A0 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00027	-0.00021
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00053	0.00054	0.00055
	(!A0 * B0 * B1 * C0 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00049	0.00050	0.00050
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00049	0.00050	0.00050
	(!A0 * !B1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00049	0.00050	0.00050
	(!A0 * !B1 * !C0 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00049	0.00050	0.00050
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * B0 * B1 * C0 * !Y)**	0.00031	0.00032	0.00032
	(A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A0 * B0 * B1 * !C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * !B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * !B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00054	-0.00053	-0.00053
	(!A0 * B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00050	-0.00049	-0.00047
	(!A0 * B0 * B1 * !C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00050	-0.00048	-0.00047
	(!A0 * !B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00050	-0.00048	-0.00047
	(!A0 * !B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00050	-0.00048	-0.00047
	(!A0 * !B0 * B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00057	0.00058	0.00058
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00054	0.00054	0.00055
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00054	0.00055	0.00055
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B1 * C0 * !Y)	-0.00038	-0.00034	-0.00027
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00053	0.00054	0.00058
	(!A1 * !B1 * !C0 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * B1 * C0 * !Y)	-0.00038	-0.00034	-0.00027
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00053	0.00054	0.00058
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00047	0.00047	0.00048

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00054	-0.00052	-0.00051
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00054	-0.00053	-0.00051
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00043	0.00044	0.00044
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00048	-0.00047	-0.00045
	(!A1 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * B1 * C0 * !Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !B1 * !C0 * Y)	0.00049	0.00051	0.00053
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00043	-0.00041	-0.00039
	(!A0 * A1 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00052	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C0 * Y)	0.00049	0.00051	0.00053
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00043	-0.00042	-0.00039

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00059	0.00060	0.00060
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00059	0.00059	0.00059
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00056	0.00056	0.00057
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00056	0.00056	0.00057
	(!A1 * B0 * C0 * !Y)	-0.00046	-0.00041	-0.00034
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00054	0.00055	0.00059
	(!A1 * !B0 * C0 * !Y)	-0.00051	-0.00051	-0.00051
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A1 * !B0 * !C0 * Y)	-0.00071	-0.00070	-0.00070
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00046	-0.00041	-0.00035
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00054	0.00055	0.00059
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00051	-0.00051	-0.00051
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7L	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00059	-0.00058	-0.00058
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * !Y)	-0.00055	-0.00054	-0.00053
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00055	-0.00054	-0.00053
	(!A1 * B0 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * C0 * !Y)	0.00051	0.00051	0.00052
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00049	-0.00048	-0.00047
	(!A1 * !B0 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00053	-0.00053	-0.00052
	(!A0 * A1 * !B0 * C0 * !Y)	0.00051	0.00051	0.00051
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00049	-0.00048	-0.00046
	(!A0 * A1 * !B0 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00076	0.00076	0.00077
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00075	0.00076	0.00076
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00076	0.00076	0.00076
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00075	0.00076	0.00076

Passive power(pJ) for C0 falling (conditional):

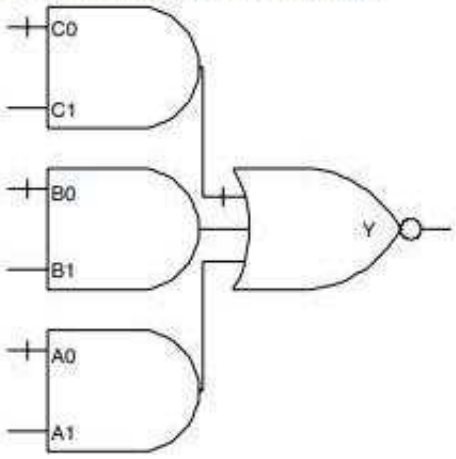
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7L	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00076	-0.00075	-0.00074
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00076	-0.00075	-0.00075
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00076	-0.00076	-0.00075

AOI222X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P5H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P5H7L	0.00067	0.00066	0.00074	0.00072	0.00072	0.00075	0.01469

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P5H7L	0.00000	0.89930	3.27882

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7L	A0->Y (FR)	0.07957	0.22096	0.61057
	A1->Y (FR)	0.07495	0.21529	0.60494
	B0->Y (FR)	0.07457	0.22165	0.64345
	B1->Y (FR)	0.07020	0.21637	0.63939
	C0->Y (FR)	0.05762	0.20573	0.63063
	C1->Y (FR)	0.05512	0.20212	0.62849

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7L	A0->Y (RF)	0.02989	0.09789	0.31892
	A1->Y (RF)	0.02853	0.09756	0.32889
	B0->Y (RF)	0.02702	0.09283	0.31306
	B1->Y (RF)	0.02568	0.09233	0.32191
	C0->Y (RF)	0.02192	0.08484	0.30463
	C1->Y (RF)	0.02132	0.08478	0.31364

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7L	A0	0.00182	0.00186	0.00215
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00014	0.00014	0.00014
	A0	0.00006	0.00012	0.00048
	A1	0.00169	0.00175	0.00207
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00011	0.00011	0.00011
	A1	0.00009	0.00016	0.00058
	B0	0.00146	0.00152	0.00187
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00014	0.00014	0.00014
	B0	0.00001	0.00009	0.00054
	B1	0.00137	0.00144	0.00182
	B1	-0.00009	-0.00008	-0.00006
	B1	0.00011	0.00011	0.00011
	B1	0.00004	0.00013	0.00064
	C0	0.00111	0.00122	0.00177
	C0	-0.00003	-0.00003	0.00000
	C0	0.00014	0.00014	0.00014
	C0	-0.00005	0.00009	0.00078
	C1	0.00102	0.00114	0.00171
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00011	0.00011	0.00011
	C1	-0.00005	0.00010	0.00084

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7L	A0	-0.00007	0.00000	0.00041
	A0	0.00014	0.00014	0.00014
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00158	0.00167	0.00205
	A1	-0.00006	0.00003	0.00056
	A1	0.00014	0.00014	0.00014
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00142	0.00154	0.00204
	B0	-0.00003	0.00004	0.00047
	B0	0.00008	0.00008	0.00009
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00139	0.00146	0.00185
	B1	-0.00005	0.00005	0.00060
	B1	0.00008	0.00009	0.00009
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00122	0.00134	0.00183
	C0	-0.00006	0.00004	0.00061
	C0	0.00001	0.00003	0.00022
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00110	0.00118	0.00167
	C1	-0.00007	0.00006	0.00075
	C1	0.00002	0.00003	0.00012
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00100	0.00111	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B1 * C0 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00005	0.00036
	(A1 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

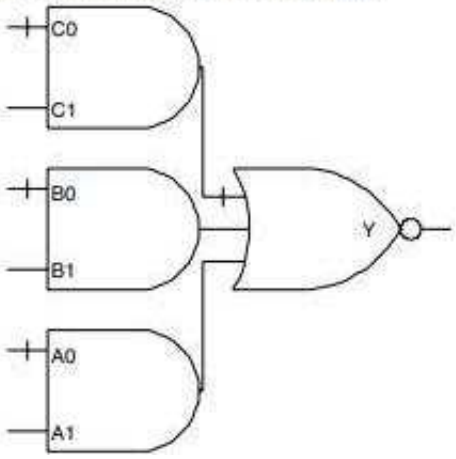
AOI222X0P5H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P7H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P7H7L	0.00071	0.00071	0.00077	0.00077	0.00077	0.00080	0.01665

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P7H7L	0.00000	0.96083	3.49541

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7L	A0->Y (FR)	0.07540	0.21761	0.61090
	A1->Y (FR)	0.07075	0.21196	0.60643
	B0->Y (FR)	0.07014	0.21828	0.64302
	B1->Y (FR)	0.06607	0.21326	0.63957
	C0->Y (FR)	0.05489	0.20381	0.63188
	C1->Y (FR)	0.05182	0.19971	0.62887

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7L	A0->Y (RF)	0.02773	0.09522	0.31635
	A1->Y (RF)	0.02641	0.09483	0.32598
	B0->Y (RF)	0.02556	0.09037	0.31072
	B1->Y (RF)	0.02439	0.08983	0.31925
	C0->Y (RF)	0.02046	0.08284	0.30344
	C1->Y (RF)	0.01964	0.08254	0.31193

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7L	A0	0.00196	0.00201	0.00234
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00016	0.00016	0.00017
	A0	0.00005	0.00012	0.00052
	A1	0.00182	0.00188	0.00226
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00013	0.00013	0.00013
	A1	0.00008	0.00016	0.00063
	B0	0.00158	0.00165	0.00205
	B0	-0.00010	-0.00010	-0.00008
	B0	0.00016	0.00016	0.00016
	B0	-0.00000	0.00009	0.00060
	B1	0.00147	0.00155	0.00198
	B1	-0.00010	-0.00009	-0.00007
	B1	0.00013	0.00013	0.00013
	B1	0.00002	0.00012	0.00070
	C0	0.00120	0.00132	0.00194
	C0	-0.00003	-0.00003	0.00000
	C0	0.00016	0.00016	0.00016
	C0	-0.00006	0.00009	0.00086
	C1	0.00110	0.00123	0.00187
	C1	-0.00003	-0.00003	0.00000
	C1	0.00013	0.00013	0.00013
	C1	-0.00005	0.00011	0.00094

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7L	A0	-0.00007	0.00000	0.00045
	A0	0.00016	0.00016	0.00016
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00173	0.00182	0.00224
	A1	-0.00007	0.00004	0.00063
	A1	0.00016	0.00016	0.00016
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00156	0.00168	0.00223
	B0	-0.00004	0.00004	0.00052
	B0	0.00010	0.00010	0.00011
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00148	0.00158	0.00201
	B1	-0.00006	0.00006	0.00067
	B1	0.00009	0.00010	0.00011
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00134	0.00145	0.00201
	C0	-0.00007	0.00004	0.00069
	C0	0.00003	0.00003	0.00005
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00120	0.00130	0.00185
	C1	-0.00007	0.00007	0.00084
	C1	0.00003	0.00003	0.00004
	C1	-0.00005	-0.00005	-0.00005
	C1	0.00108	0.00121	0.00186

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C1 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B1 * C0 * C1 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00005	0.00036
	(A1 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	0.00004	0.00034
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

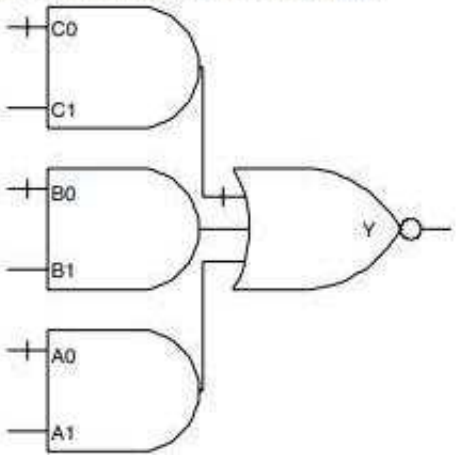
AOI222X0P7H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1H7L	0.00077	0.00077	0.00084	0.00083	0.00083	0.00087	0.01978

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1H7L	0.00000	1.06315	3.85823

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7L	A0->Y (FR)	0.07073	0.21416	0.61251
	A1->Y (FR)	0.06611	0.20854	0.60776
	B0->Y (FR)	0.06615	0.21568	0.64626
	B1->Y (FR)	0.06179	0.21038	0.64128
	C0->Y (FR)	0.05048	0.20081	0.63334
	C1->Y (FR)	0.04728	0.19658	0.63068

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7L	A0->Y (RF)	0.02595	0.09382	0.31811
	A1->Y (RF)	0.02461	0.09345	0.32832
	B0->Y (RF)	0.02326	0.08908	0.31276
	B1->Y (RF)	0.02278	0.08873	0.32244
	C0->Y (RF)	0.01886	0.08163	0.30534
	C1->Y (RF)	0.01794	0.08121	0.31420

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7L	A0	0.00220	0.00226	0.00264
	A0	-0.00019	-0.00018	-0.00018
	A0	0.00019	0.00019	0.00019
	A0	0.00005	0.00012	0.00061
	A1	0.00204	0.00211	0.00255
	A1	-0.00019	-0.00018	-0.00018
	A1	0.00015	0.00015	0.00015
	A1	0.00008	0.00017	0.00073
	B0	0.00180	0.00187	0.00233
	B0	-0.00012	-0.00011	-0.00003
	B0	0.00019	0.00019	0.00019
	B0	0.00001	0.00011	0.00070
	B1	0.00165	0.00174	0.00225
	B1	-0.00012	-0.00012	-0.00010
	B1	0.00015	0.00015	0.00015
	B1	0.00003	0.00015	0.00082
	C0	0.00134	0.00148	0.00220
	C0	-0.00004	-0.00004	-0.00002
	C0	0.00019	0.00019	0.00019
	C0	-0.00008	0.00010	0.00099
	C1	0.00122	0.00137	0.00212
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00015	0.00015	0.00015
	C1	-0.00006	0.00013	0.00111

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7L	A0	-0.00009	-0.00000	0.00052
	A0	0.00019	0.00019	0.00020
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00192	0.00204	0.00253
	A1	-0.00009	0.00004	0.00072
	A1	0.00019	0.00019	0.00019
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00175	0.00188	0.00253
	B0	-0.00006	0.00004	0.00060
	B0	0.00011	0.00012	0.00013
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00168	0.00178	0.00228
	B1	-0.00007	0.00007	0.00078
	B1	0.00012	0.00012	0.00014
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00148	0.00163	0.00227
	C0	-0.00008	0.00005	0.00080
	C0	0.00004	0.00004	0.00005
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00135	0.00146	0.00210
	C1	-0.00008	0.00008	0.00098
	C1	0.00004	0.00004	0.00005
	C1	-0.00006	-0.00006	-0.00006
	C1	0.00121	0.00135	0.00211

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00013	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00013	-0.00011	-0.00009
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00004
	(A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00016	-0.00013	-0.00011
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00016	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00002	0.00003	0.00002
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00015	0.00041
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	0.00004	0.00032
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00030	0.00031	0.00031
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00023	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

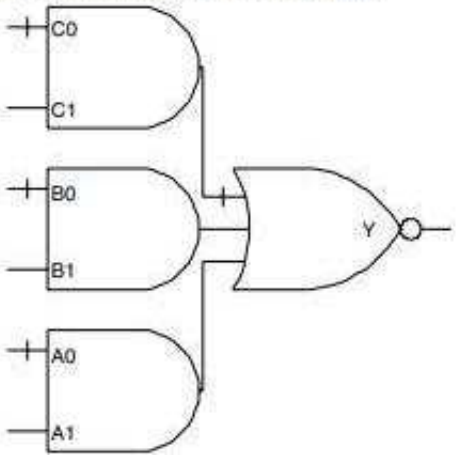
AOI222X1H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1P4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1P4H7L	0.00083	0.00084	0.00090	0.00092	0.00091	0.00092	0.02249

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1P4H7L	0.00000	1.17637	4.26383

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7L	A0->Y (FR)	0.06789	0.21185	0.61245
	A1->Y (FR)	0.06321	0.20622	0.60820
	B0->Y (FR)	0.06319	0.21344	0.64732
	B1->Y (FR)	0.05913	0.20846	0.64220
	C0->Y (FR)	0.04942	0.20029	0.63553
	C1->Y (FR)	0.04550	0.19559	0.63243

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7L	A0->Y (RF)	0.02318	0.09095	0.31494
	A1->Y (RF)	0.02187	0.09073	0.32528
	B0->Y (RF)	0.02192	0.08692	0.30991
	B1->Y (RF)	0.02076	0.08655	0.32023
	C0->Y (RF)	0.01808	0.08015	0.30301
	C1->Y (RF)	0.01695	0.07953	0.31196

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7L	A0	0.00242	0.00249	0.00294
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00022	0.00022	0.00022
	A0	0.00003	0.00012	0.00067
	A1	0.00224	0.00232	0.00284
	A1	-0.00022	-0.00022	-0.00019
	A1	0.00017	0.00017	0.00017
	A1	0.00005	0.00016	0.00081
	B0	0.00198	0.00207	0.00261
	B0	-0.00014	-0.00013	-0.00011
	B0	0.00022	0.00022	0.00022
	B0	0.00001	0.00012	0.00080
	B1	0.00182	0.00193	0.00251
	B1	-0.00014	-0.00013	-0.00012
	B1	0.00017	0.00017	0.00018
	B1	0.00002	0.00015	0.00093
	C0	0.00151	0.00167	0.00248
	C0	-0.00005	-0.00005	-0.00002
	C0	0.00022	0.00022	0.00022
	C0	-0.00006	0.00014	0.00115
	C1	0.00137	0.00153	0.00239
	C1	-0.00005	-0.00005	-0.00001
	C1	0.00017	0.00017	0.00017
	C1	-0.00006	0.00016	0.00127

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7L	A0	-0.00010	-0.00000	0.00059
	A0	0.00021	0.00021	0.00023
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00217	0.00228	0.00283
	A1	-0.00010	0.00004	0.00081
	A1	0.00022	0.00022	0.00023
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00193	0.00210	0.00283
	B0	-0.00009	0.00003	0.00066
	B0	0.00014	0.00014	0.00017
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00184	0.00196	0.00253
	B1	-0.00008	0.00007	0.00087
	B1	0.00013	0.00014	0.00015
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00163	0.00181	0.00253
	C0	-0.00010	0.00005	0.00090
	C0	0.00005	0.00005	0.00006
	C0	-0.00012	-0.00012	-0.00012
	C0	0.00149	0.00161	0.00234
	C1	-0.00010	0.00009	0.00111
	C1	0.00002	0.00005	0.00006
	C1	-0.00007	-0.00007	-0.00007
	C1	0.00133	0.00148	0.00235

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * B1 * !C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * C1 * !Y)	-0.00015	-0.00012	-0.00009
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00015	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B0 * B1 * !C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B1 * C0 * C1 * !Y)	-0.00015	-0.00012	-0.00009
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00015	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B1 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * B1 * !C1 * !Y)	0.00015	0.00016	0.00016
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00018	-0.00016	-0.00012
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00023	0.00024	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00018	-0.00016	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	0.00004	0.00032
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * C0 * C1 * !Y)	-0.00019	-0.00016	-0.00013
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00026
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00019	-0.00016	-0.00013
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00026
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * !B0 * !C1 * Y)	0.00030	0.00031	0.00031
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00031	0.00032	0.00032
	(!A1 * !B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * !B1 * !C1 * Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00033	0.00033	0.00034
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

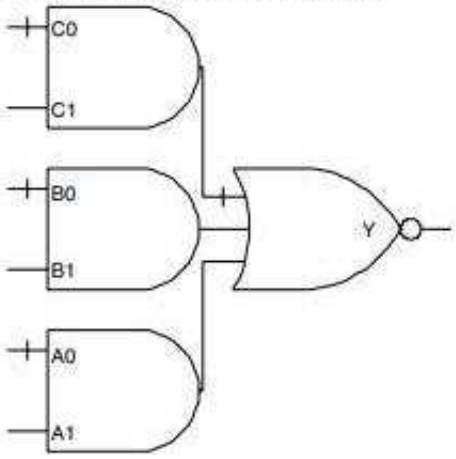
AOI222X1P4H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X2H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X2H7L	0.00097	0.00101	0.00098	0.00100	0.00095	0.00104	0.02646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X2H7L	0.00000	1.37022	4.95420

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7L	A0->Y (FR)	0.06578	0.21061	0.61447
	A1->Y (FR)	0.06129	0.20504	0.60803
	B0->Y (FR)	0.06023	0.21105	0.64662
	B1->Y (FR)	0.05580	0.20578	0.64286
	C0->Y (FR)	0.04570	0.19744	0.63539
	C1->Y (FR)	0.04263	0.19320	0.63282

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7L	A0->Y (RF)	0.02297	0.08884	0.31019
	A1->Y (RF)	0.02180	0.08852	0.32022
	B0->Y (RF)	0.02013	0.08372	0.30472
	B1->Y (RF)	0.01891	0.08311	0.31346
	C0->Y (RF)	0.01628	0.07681	0.29781
	C1->Y (RF)	0.01159	0.07632	0.30683

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7L	A0	0.00282	0.00291	0.00343
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00027	0.00027	0.00027
	A0	0.00004	0.00014	0.00079
	A1	0.00261	0.00271	0.00332
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00021	0.00021	0.00021
	A1	0.00005	0.00018	0.00096
	B0	0.00226	0.00236	0.00300
	B0	-0.00016	-0.00016	-0.00013
	B0	0.00027	0.00027	0.00027
	B0	-0.00002	0.00012	0.00094
	B1	0.00206	0.00219	0.00289
	B1	-0.00017	-0.00016	-0.00014
	B1	0.00021	0.00021	0.00021
	B1	0.00000	0.00016	0.00110
	C0	0.00168	0.00188	0.00285
	C0	-0.00006	-0.00006	0.00000
	C0	0.00027	0.00027	0.00027
	C0	-0.00008	0.00016	0.00137
	C1	0.00155	0.00175	0.00278
	C1	-0.00006	-0.00006	0.00000
	C1	0.00021	0.00021	0.00021
	C1	-0.00007	0.00019	0.00153

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7L	A0	-0.00012	-0.00001	0.00069
	A0	0.00027	0.00027	0.00027
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00250	0.00264	0.00330
	A1	-0.00012	0.00005	0.00095
	A1	0.00027	0.00027	0.00027
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00226	0.00244	0.00330
	B0	-0.00009	0.00004	0.00079
	B0	0.00016	0.00017	0.00020
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00213	0.00226	0.00293
	B1	-0.00010	0.00008	0.00104
	B1	0.00014	0.00017	0.00022
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00187	0.00206	0.00293
	C0	-0.00013	0.00007	0.00110
	C0	0.00005	0.00006	0.00012
	C0	-0.00015	-0.00015	-0.00015
	C0	0.00168	0.00183	0.00270
	C1	-0.00015	0.00008	0.00131
	C1	0.00005	0.00006	0.00008
	C1	-0.00009	-0.00009	-0.00008
	C1	0.00148	0.00167	0.00271

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00018	-0.00016	-0.00012
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * B1 * !C1 * !Y)	-0.00019	-0.00016	-0.00012
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00016	-0.00012
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00028	-0.00026	-0.00016
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00026
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00018	-0.00016	-0.00012
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00018	0.00018	0.00018
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * !C1 * Y)	0.00030	0.00030	0.00031
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00017	-0.00014
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00027	0.00028	0.00029
	(!A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00017	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00027	0.00028	0.00029
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	0.00003	0.00024
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C1 * Y)	0.00027	0.00028	0.00029
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00028	0.00029
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	0.00027	0.00028	0.00029
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00028	0.00029
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00019	-0.00015
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00028
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00019	-0.00015
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00028
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C1 * Y)	0.00034	0.00034	0.00035
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00034	0.00034	0.00035
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B0 * !C1 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B1 * !C1 * Y)	0.00026	0.00027	0.00028
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00027	0.00028
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00037
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00036	0.00036	0.00037
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00038
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

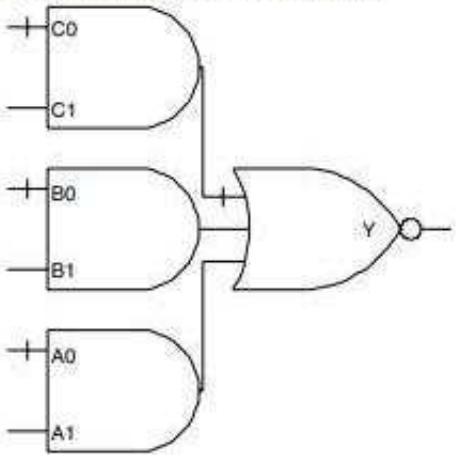
AOI222X2H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00038	-0.00037	-0.00037
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00035
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00036	-0.00035	-0.00034
	(!A1 * !B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

AOI222X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X3H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X3H7L	0.00168	0.00159	0.00156	0.00178	0.00161	0.00187	0.04096

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X3H7L	0.00000	2.21731	8.05575

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7L	A0->Y (FR)	0.06587	0.21005	0.61267
	A1->Y (FR)	0.06152	0.20447	0.60696
	B0->Y (FR)	0.06011	0.21049	0.64441
	B1->Y (FR)	0.05637	0.20521	0.63929
	C0->Y (FR)	0.04616	0.19772	0.63538
	C1->Y (FR)	0.04300	0.19284	0.62987

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7L	A0->Y (RF)	0.02190	0.08904	0.31232
	A1->Y (RF)	0.02207	0.08934	0.32193
	B0->Y (RF)	0.02103	0.08464	0.30680
	B1->Y (RF)	0.02009	0.08422	0.31639
	C0->Y (RF)	0.01673	0.07789	0.30031
	C1->Y (RF)	0.01222	0.07765	0.30931

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7L	A0	0.00457	0.00470	0.00557
	A0	-0.00040	-0.00039	-0.00039
	A0	0.00041	0.00041	0.00041
	A0	0.00006	0.00023	0.00130
	A1	0.00421	0.00439	0.00538
	A1	-0.00039	-0.00039	-0.00039
	A1	0.00031	0.00032	0.00032
	A1	0.00011	0.00033	0.00160
	B0	0.00372	0.00389	0.00492
	B0	-0.00026	-0.00024	-0.00007
	B0	0.00041	0.00041	0.00041
	B0	0.00003	0.00026	0.00157
	B1	0.00347	0.00367	0.00481
	B1	-0.00025	-0.00023	-0.00005
	B1	0.00032	0.00032	0.00033
	B1	0.00007	0.00034	0.00186
	C0	0.00283	0.00313	0.00467
	C0	-0.00009	-0.00009	-0.00004
	C0	0.00041	0.00041	0.00041
	C0	-0.00016	0.00023	0.00214
	C1	0.00258	0.00290	0.00454
	C1	-0.00009	-0.00009	-0.00001
	C1	0.00031	0.00032	0.00032
	C1	-0.00013	0.00030	0.00242

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7L	A0	-0.00020	-0.00000	0.00112
	A0	0.00040	0.00041	0.00041
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00406	0.00430	0.00536
	A1	-0.00018	0.00009	0.00155
	A1	0.00040	0.00041	0.00041
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00364	0.00395	0.00534
	B0	-0.00015	0.00006	0.00129
	B0	0.00007	0.00024	0.00039
	B0	-0.00023	-0.00023	-0.00023
	B0	0.00345	0.00367	0.00477
	B1	-0.00023	0.00010	0.00164
	B1	0.00006	0.00025	0.00029
	B1	-0.00014	-0.00013	-0.00010
	B1	0.00309	0.00338	0.00477
	C0	-0.00013	0.00016	0.00180
	C0	0.00008	0.00009	0.00010
	C0	-0.00023	-0.00023	-0.00022
	C0	0.00289	0.00313	0.00451
	C1	-0.00209	0.00018	0.00218
	C1	0.00001	0.00014	0.00257
	C1	-0.00014	-0.00013	-0.00013
	C1	0.00255	0.00288	0.00452

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00029	-0.00025	-0.00019
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00049	0.00050	0.00050
	(A1 * B0 * B1 * !C1 * !Y)	-0.00029	-0.00025	-0.00019
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00049	0.00050	0.00051
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00029	-0.00025	-0.00019
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00049	0.00050	0.00052
	(A1 * !B1 * C0 * C1 * !Y)	-0.00028	-0.00023	-0.00017
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00050	0.00051	0.00052
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00028	-0.00023	-0.00017
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00050	0.00051	0.00052
	(!A1 * B0 * B1 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00046	0.00046	0.00047
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00037	-0.00037	-0.00036
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00046	0.00047	0.00047
	(!A1 * !B1 * !C1 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00046	0.00047	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00028	0.00029	0.00029
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00049	-0.00049	-0.00049
	(A1 * B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00049	-0.00049	-0.00049
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00050	-0.00049	-0.00048
	(A1 * !B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00050	-0.00050	-0.00049
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00050	-0.00050	-0.00049
	(!A1 * B0 * B1 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00046	-0.00045	-0.00044
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00036	0.00037	0.00037
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00046	-0.00045	-0.00044
	(!A1 * !B1 * !C1 * Y)	0.00040	0.00042	0.00044
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00044	-0.00042	-0.00041
	(!A1 * !B1 * !C0 * C1 * Y)	0.00040	0.00041	0.00044
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00044	-0.00043	-0.00041
	(!A1 * !B0 * B1 * !C1 * Y)	0.00040	0.00041	0.00044
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00044	-0.00043	-0.00041
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00040	0.00041	0.00044
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00044	-0.00043	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00026	-0.00023	-0.00018
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00047	0.00047	0.00047
	(A0 * B0 * B1 * !C1 * !Y)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00047	0.00047	0.00047
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00047	0.00047	0.00047
	(A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00047	0.00048	0.00048
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00047	0.00048	0.00049
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00043	0.00044	0.00044
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00043	0.00044	0.00044
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * !C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * B0 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00044	-0.00043	-0.00041
	(!A0 * !B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00042
	(!A0 * !B1 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B1 * !C0 * C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00041
	(!A0 * !B0 * B1 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00049
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00049	0.00049	0.00049
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00049	0.00049	0.00049
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00042	0.00043	0.00043
	(!A1 * B1 * C0 * C1 * !Y)	-0.00031	-0.00027	-0.00021
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00046	0.00048	0.00050
	(!A1 * !B1 * !C1 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00031	-0.00027	-0.00021
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00046	0.00048	0.00050
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00051	-0.00051	-0.00051
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00050	-0.00050	-0.00050
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00051	-0.00050	-0.00050
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00049	-0.00048	-0.00047
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00048	-0.00047	-0.00046
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00048	-0.00047	-0.00046
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00042	-0.00042	-0.00040
	(!A1 * B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1 * !B1 * !C1 * Y)	0.00041	0.00042	0.00044
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B1 * !C0 * C1 * Y)	0.00041	0.00042	0.00044
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00038	-0.00037	-0.00035
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00033
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00046	-0.00046	-0.00045
	(!A0 * A1 * !B1 * !C1 * Y)	0.00041	0.00042	0.00044
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00038	-0.00037	-0.00034
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00041	0.00042	0.00044
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00038	-0.00037	-0.00035

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00005	-0.00006	-0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00049	0.00049	0.00050
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * C0 * C1 * !Y)	-0.00036	-0.00032	-0.00026
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00046	0.00047	0.00050
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00042	-0.00041	-0.00041
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00042	0.00042	0.00042
	(!A1 * !B0 * !C1 * Y)	-0.00059	-0.00058	-0.00058
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00059	-0.00058	-0.00058
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00036	-0.00032	-0.00026
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00046	0.00047	0.00050
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00059	-0.00058	-0.00058
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00049	-0.00048	-0.00047
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00005	0.00006	0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00048	-0.00047	-0.00046
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00048	-0.00047	-0.00045
	(!A1 * B0 * C0 * C1 * !Y)	0.00037	0.00037	0.00038
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00046	-0.00045	-0.00045
	(!A1 * !B0 * C0 * C1 * !Y)	0.00041	0.00041	0.00042
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00042	-0.00041	-0.00040
	(!A1 * !B0 * !C1 * Y)	0.00059	0.00059	0.00059
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	0.00059	0.00059	0.00059
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00037	0.00037	0.00037
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00046	-0.00045	-0.00045
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00041	0.00041	0.00042
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00042	-0.00041	-0.00040
	(!A0 * A1 * !B0 * !C1 * Y)	0.00059	0.00059	0.00059
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00059	0.00059	0.00059
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00062	0.00062	0.00062
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00060	0.00060	0.00060
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00061	0.00062	0.00062
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00060	0.00060	0.00061
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00061	0.00062	0.00062
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00060	0.00060	0.00060
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00061	0.00062	0.00062
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00060	0.00060	0.00060
	(!A1 * !B1 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00042	0.00042
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00041	0.00042	0.00042
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00060	-0.00059	-0.00058
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00062	-0.00061	-0.00060
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00060	-0.00059	-0.00057
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00062	-0.00061	-0.00060
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00060	-0.00059	-0.00058
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00062	-0.00061	-0.00061
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00060	-0.00059	-0.00057
	(!A1 * !B1 * !C1 * Y)	0.00041	0.00043	0.00045
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00043	0.00045
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00038	-0.00037	-0.00035
	(!A0 * A1 * !B1 * !C1 * Y)	0.00041	0.00043	0.00045
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00038	-0.00037	-0.00035
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00043	0.00045
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00038	-0.00037	-0.00035

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00067	0.00067	0.00067
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00065	0.00065	0.00065
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00065	0.00065	0.00065
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00064	0.00065	0.00065
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00065	0.00065	0.00065
	(!A1 * !B1 * !C0 * Y)	-0.00060	-0.00059	-0.00058
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00060	-0.00059	-0.00059
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

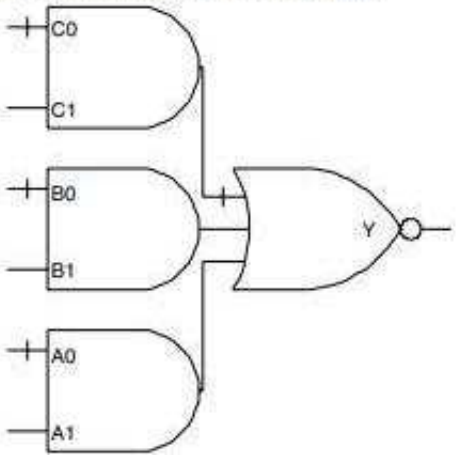
AOI222X3H7L	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00065	-0.00064	-0.00063
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00067	-0.00066	-0.00066
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00065	-0.00064	-0.00063
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00067	-0.00066	-0.00065
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00065	-0.00064	-0.00063
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00065	-0.00064	-0.00063
	(!A1 * !B1 * !C0 * Y)	0.00059	0.00060	0.00060
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00059	0.00060	0.00060
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	0.00059	0.00060	0.00060
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00059	0.00059	0.00060
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

AOI222X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X4H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X4H7L	0.00200	0.00188	0.00182	0.00210	0.00189	0.00219	0.05218

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X4H7L	0.00000	2.74045	9.90840

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7L	A0->Y (FR)	0.06214	0.20690	0.61218
	A1->Y (FR)	0.05744	0.20096	0.60606
	B0->Y (FR)	0.05628	0.20725	0.64324
	B1->Y (FR)	0.05236	0.20181	0.63930
	C0->Y (FR)	0.04368	0.19597	0.63663
	C1->Y (FR)	0.04031	0.19085	0.63120

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7L	A0->Y (RF)	0.02149	0.08647	0.30674
	A1->Y (RF)	0.02008	0.08595	0.31731
	B0->Y (RF)	0.01847	0.08120	0.30155
	B1->Y (RF)	0.01752	0.08085	0.31077
	C0->Y (RF)	0.01253	0.07513	0.29547
	C1->Y (RF)	0.00764	0.07480	0.30472

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7L	A0	0.00557	0.00575	0.00687
	A0	-0.00052	-0.00052	-0.00051
	A0	0.00054	0.00054	0.00054
	A0	0.00003	0.00025	0.00164
	A1	0.00509	0.00532	0.00664
	A1	-0.00057	-0.00052	-0.00051
	A1	0.00042	0.00042	0.00042
	A1	0.00008	0.00037	0.00204
	B0	0.00447	0.00470	0.00605
	B0	-0.00033	-0.00031	-0.00009
	B0	0.00053	0.00054	0.00054
	B0	0.00001	0.00030	0.00202
	B1	0.00418	0.00443	0.00593
	B1	-0.00033	-0.00031	-0.00008
	B1	0.00041	0.00042	0.00042
	B1	0.00002	0.00036	0.00234
	C0	0.00344	0.00383	0.00579
	C0	-0.00012	-0.00011	-0.00004
	C0	0.00053	0.00054	0.00054
	C0	-0.00018	0.00033	0.00276
	C1	0.00313	0.00354	0.00564
	C1	-0.00012	-0.00011	-0.00003
	C1	0.00041	0.00042	0.00042
	C1	-0.00015	0.00039	0.00311

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7L	A0	-0.00025	-0.00001	0.00142
	A0	0.00051	0.00052	0.00058
	A0	-0.00030	-0.00030	-0.00030
	A0	0.00500	0.00527	0.00664
	A1	-0.00024	0.00011	0.00197
	A1	0.00051	0.00052	0.00057
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00443	0.00482	0.00659
	B0	-0.00024	0.00007	0.00164
	B0	0.00027	0.00032	0.00047
	B0	-0.00030	-0.00030	-0.00029
	B0	0.00418	0.00445	0.00586
	B1	-0.00027	0.00010	0.00207
	B1	0.00010	0.00032	0.00037
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00375	0.00412	0.00590
	C0	-0.00016	0.00020	0.00231
	C0	0.00011	0.00013	0.00066
	C0	-0.00030	-0.00030	-0.00029
	C0	0.00350	0.00380	0.00556
	C1	-0.00019	0.00028	0.00278
	C1	0.00010	0.00012	0.00021
	C1	-0.00018	-0.00018	-0.00017
	C1	0.00312	0.00351	0.00561

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00038	-0.00033	-0.00025
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00007	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00055	0.00056	0.00057
	(A1 * B0 * B1 * !C1 * !Y)	-0.00038	-0.00033	-0.00025
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00056	0.00056	0.00057
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00038	-0.00033	-0.00025
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00056	0.00056	0.00057
	(A1 * !B1 * C0 * C1 * !Y)	-0.00037	-0.00030	-0.00023
	(A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00056	0.00057	0.00059
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00037	-0.00030	-0.00023
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00056	0.00057	0.00060
	(!A1 * B0 * B1 * !Y)	-0.00048	-0.00048	-0.00047
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00051	0.00052	0.00052
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00048	-0.00048	-0.00047
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00051	0.00052	0.00052
	(!A1 * !B1 * !C1 * Y)	-0.00049	-0.00047	-0.00041
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00052	-0.00049	-0.00048
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00052	-0.00049	-0.00048
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	0.00000	0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00054	0.00054	0.00054
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00054	0.00054	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00037	0.00037	0.00038
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	0.00026	0.00185
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * B1 * !C1 * !Y)	0.00040	0.00040	0.00041
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00055	-0.00055	-0.00055
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00040	0.00041	0.00041
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00005
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	0.00013	0.00092
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * !B1 * C0 * C1 * !Y)	0.00037	0.00038	0.00038
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00003	0.00004
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00056	-0.00055	-0.00050
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00038	0.00038	0.00038
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00056	-0.00043	0.00038
	(!A1 * B0 * B1 * !Y)	0.00047	0.00048	0.00048
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00052	-0.00050	-0.00049
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00047	0.00048	0.00048
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00050	-0.00049
	(!A1 * !B1 * !C1 * Y)	0.00051	0.00053	0.00055
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00049	-0.00048	-0.00044
	(!A1 * !B1 * !C0 * C1 * Y)	0.00051	0.00052	0.00054
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00050	-0.00048	-0.00045
	(!A1 * !B0 * B1 * !C1 * Y)	0.00051	0.00053	0.00055
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00050	-0.00048	-0.00046
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00050	0.00052	0.00054
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00050	-0.00048	-0.00045

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00033	-0.00029	-0.00023
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00053	0.00053	0.00053
	(A0 * B0 * B1 * !C1 * !Y)	-0.00033	-0.00029	-0.00023
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00053	0.00053	0.00054
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00033	-0.00029	-0.00023
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00053	0.00053	0.00053
	(A0 * !B1 * C0 * C1 * !Y)	-0.00032	-0.00028	-0.00022
	(A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00053	0.00054	0.00055
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00032	-0.00028	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00053	0.00054	0.00055
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !B1 * !C1 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00058	-0.00058	-0.00057
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00058	-0.00058	-0.00057
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00032	0.00032	0.00033
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * B0 * B1 * !C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00053	-0.00053	-0.00053
	(A0 * !B1 * C0 * C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00049	-0.00048	-0.00047
	(!A0 * B0 * B1 * !C1 * !Y)	0.00040	0.00040	0.00040
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00049	-0.00048	-0.00046
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00040	0.00040	0.00041
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00049	-0.00048	-0.00047
	(!A0 * !B1 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00049	-0.00048	-0.00046
	(!A0 * !B1 * !C1 * Y)	0.00058	0.00059	0.00059
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	0.00058	0.00058	0.00059
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00049	-0.00048	-0.00046
	(!A0 * !B0 * B1 * !C1 * Y)	0.00058	0.00058	0.00059
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00058	0.00058	0.00059
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00058	0.00058	0.00058
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00057	0.00057	0.00058
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00054	0.00055	0.00055
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00055	0.00055	0.00055
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00055	0.00055	0.00055
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B1 * C0 * C1 * !Y)	-0.00038	-0.00033	-0.00026
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00053	0.00055	0.00058
	(!A1 * !B1 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00038	-0.00033	-0.00026
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00053	0.00055	0.00058
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00048

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00058	-0.00057	-0.00057
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00051
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00054	-0.00053	-0.00052
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00054	-0.00053	-0.00051
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00043	0.00044	0.00044
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00048	-0.00047	-0.00045
	(!A1 * B1 * C0 * C1 * !Y)	0.00039	0.00039	0.00039
	(!A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A1 * !B1 * !C0 * C1 * Y)	0.00049	0.00051	0.00053
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00049	0.00051	0.00053
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00043	-0.00042	-0.00040

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00061	0.00062	0.00062
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00061	0.00061	0.00061
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00060	0.00061	0.00061
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00058	0.00059	0.00059
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00058	0.00059	0.00059
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00058	0.00059	0.00059
	(!A1 * B0 * C0 * C1 * !Y)	-0.00046	-0.00040	-0.00033
	(!A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00056	0.00058	0.00061
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00051	0.00051	0.00051
	(!A1 * !B0 * !C1 * Y)	-0.00072	-0.00072	-0.00071
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00072	-0.00072	-0.00071
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00046	-0.00040	-0.00033
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00056	0.00058	0.00061
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00052
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00051	0.00051	0.00052
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00072	-0.00072	-0.00071
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00072	-0.00072	-0.00071
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00061	-0.00060	-0.00060
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00061	-0.00060	-0.00060
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00058	-0.00057	-0.00055
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00058	-0.00056	-0.00054
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00058	-0.00056	-0.00054
	(!A1 * B0 * C0 * C1 * !Y)	0.00047	0.00047	0.00047
	(!A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00055	-0.00055	-0.00055
	(!A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00052
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00051	-0.00049	-0.00047
	(!A1 * !B0 * !C1 * Y)	0.00072	0.00072	0.00073
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	0.00072	0.00072	0.00073
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00052
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00051	-0.00050	-0.00048
	(!A0 * A1 * !B0 * !C1 * Y)	0.00072	0.00072	0.00073
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00072	0.00072	0.00073
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00070	0.00071	0.00071
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00068	0.00068	0.00069
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00071	0.00071	0.00071
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00068	0.00068	0.00069
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00070	0.00071	0.00071
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00068	0.00068	0.00069
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00071	0.00071	0.00071
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00068	0.00068	0.00069
	(!A1 * !B1 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00047	0.00048

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00071	-0.00070	-0.00070
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00068	-0.00067	-0.00065
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00070	-0.00070	-0.00070
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00068	-0.00067	-0.00065
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00068	-0.00067	-0.00065
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00071	-0.00070	-0.00070
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00068	-0.00067	-0.00066
	(!A1 * !B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A1 * !B0 * B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A0 * A1 * !B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00049	0.00051	0.00053
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00043	-0.00042	-0.00039

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00079	0.00079	0.00080
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00076	0.00077	0.00077
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00078	0.00079	0.00079
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00077	0.00077	0.00077
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00078	0.00079	0.00080
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00076	0.00077	0.00077
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00079	0.00079	0.00080
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00077	0.00077	0.00077
	(!A1 * !B1 * !C0 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

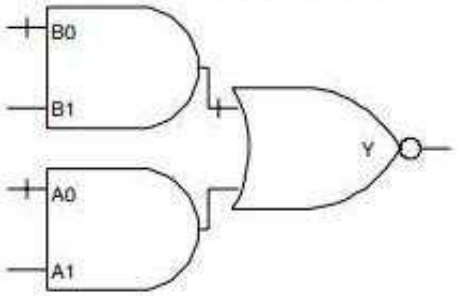
AOI222X4H7L	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00079	-0.00079	-0.00078
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00077	-0.00075	-0.00074
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00079	-0.00078	-0.00078
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00077	-0.00075	-0.00074
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00079	-0.00078	-0.00077
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00076	-0.00075	-0.00073
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00079	-0.00079	-0.00078
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00077	-0.00075	-0.00072
	(!A1 * !B1 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00071	0.00071	0.00072
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007

AOI22X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P5H7L	0.00066	0.00074	0.00078	0.00071	0.02230

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P5H7L	0.00000	0.81037	2.18606

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7L	A0->Y (FR)	0.04256	0.19303	0.63445
	A1->Y (FR)	0.04038	0.18969	0.63138
	B0->Y (FR)	0.03283	0.18313	0.63606
	B1->Y (FR)	0.03500	0.18644	0.63858

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7L	A0->Y (RF)	0.02438	0.11231	0.40312
	A1->Y (RF)	0.02291	0.11255	0.41957
	B0->Y (RF)	0.01910	0.10524	0.41305
	B1->Y (RF)	0.01974	0.10499	0.39708

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	A0	0.00124	0.00131	0.00179
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00009	0.00010	0.00010
	A0	-0.00003	0.00005	0.00058
	A1	0.00107	0.00117	0.00178
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00007
	A1	0.00002	0.00012	0.00072
	B0	0.00063	0.00078	0.00164
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00006	0.00006	0.00006
	B0	-0.00007	0.00009	0.00095
	B1	0.00085	0.00098	0.00167
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00009	0.00009	0.00010
	B1	-0.00011	0.00003	0.00080

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	A0	-0.00007	0.00001	0.00051
	A0	0.00008	0.00009	0.00009
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00117	0.00125	0.00174
	A1	-0.00007	0.00004	0.00066
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00099	0.00112	0.00173
	B0	-0.00004	0.00009	0.00086
	B0	0.00003	0.00003	0.00004
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00075	0.00090	0.00161
	B1	-0.00006	0.00005	0.00070
	B1	0.00003	0.00003	0.00003
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00093	0.00102	0.00161

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A1 * B0 * B1 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !B1 * Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * B0 * B1 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * B0 * B1 * !Y)	0.00012	0.00012	0.00013
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00029	0.00029	0.00030
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B1 falling (conditional):

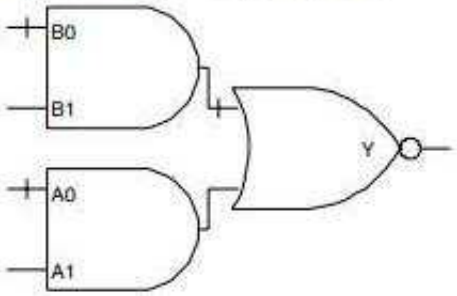
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	-0.00018	-0.00017	-0.00017

AOI22X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P7H7L	0.00072	0.00078	0.00080	0.00076	0.02531

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P7H7L	0.00000	0.86540	2.33045

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7L	A0->Y (FR)	0.04045	0.19167	0.63643
	A1->Y (FR)	0.03786	0.18771	0.63312
	B0->Y (FR)	0.03023	0.18115	0.63760
	B1->Y (FR)	0.03291	0.18513	0.64163

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7L	A0->Y (RF)	0.02205	0.10991	0.40282
	A1->Y (RF)	0.02093	0.10990	0.41714
	B0->Y (RF)	0.01714	0.10267	0.41103
	B1->Y (RF)	0.01824	0.10287	0.39592

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	A0	0.00135	0.00144	0.00197
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00011	0.00011	0.00011
	A0	-0.00004	0.00006	0.00065
	A1	0.00113	0.00123	0.00193
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00007	0.00007	0.00007
	A1	-0.00001	0.00011	0.00079
	B0	0.00067	0.00084	0.00182
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00006	0.00007	0.00008
	B0	-0.00007	0.00011	0.00107
	B1	0.00092	0.00106	0.00184
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00011	0.00011	0.00011
	B1	-0.00013	0.00004	0.00090

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	A0	-0.00008	0.00001	0.00056
	A0	0.00010	0.00010	0.00010
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00126	0.00136	0.00190
	A1	-0.00008	0.00005	0.00075
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00107	0.00122	0.00190
	B0	-0.00007	0.00008	0.00095
	B0	0.00003	0.00003	0.00004
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00081	0.00095	0.00175
	B1	-0.00007	0.00005	0.00078
	B1	0.00003	0.00003	0.00004
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00100	0.00110	0.00177

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A1 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00023	0.00024	0.00026
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A1 * B0 * B1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * Y)	0.00016	0.00017	0.00018
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * !B0 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B1 falling (conditional):

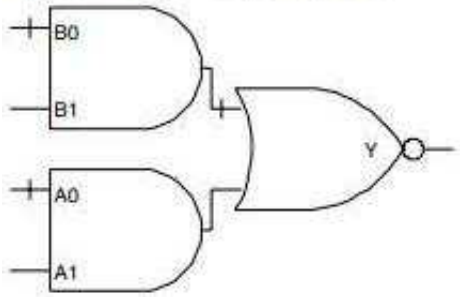
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	-0.00019	-0.00018	-0.00017

AOI22X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1H7L	0.00078	0.00078	0.00080	0.00086	0.03010

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1H7L	0.00000	0.95706	2.57233

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7L	A0->Y (FR)	0.03676	0.18872	0.63745
	A1->Y (FR)	0.03358	0.18428	0.63431
	B0->Y (FR)	0.02927	0.18230	0.64287
	B1->Y (FR)	0.02684	0.17857	0.63922

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7L	A0->Y (RF)	0.02001	0.10831	0.40416
	A1->Y (RF)	0.01860	0.10802	0.41918
	B0->Y (RF)	0.01613	0.10122	0.39846
	B1->Y (RF)	0.01302	0.10122	0.41376

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7L	A0	0.00147	0.00156	0.00219
	A0	-0.00012	-0.00012	-0.00010
	A0	0.00013	0.00013	0.00013
	A0	-0.00006	0.00005	0.00074
	A1	0.00130	0.00141	0.00215
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00008	0.00009	0.00009
	A1	-0.00002	0.00011	0.00093
	B0	0.00098	0.00115	0.00206
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00013	0.00013	0.00013
	B0	-0.00015	0.00004	0.00105
	B1	0.00069	0.00089	0.00204
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00008	0.00009	0.00009
	B1	-0.00009	0.00011	0.00125

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7L	A0	-0.00009	0.00001	0.00065
	A0	0.00012	0.00012	0.00012
	A0	-0.00008	-0.00009	-0.00008
	A0	0.00138	0.00149	0.00211
	A1	-0.00009	0.00005	0.00087
	A1	0.00012	0.00012	0.00012
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00115	0.00131	0.00212
	B0	-0.00009	0.00005	0.00092
	B0	0.00004	0.00004	0.00005
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00106	0.00118	0.00198
	B1	-0.00009	0.00009	0.00112
	B1	0.00004	0.00004	0.00005
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00084	0.00103	0.00197

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A1 * B0 * B1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !Y)	0.00025	0.00026	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A1 * B0 * B1 * !Y)	0.00015	0.00016	0.00016
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	-0.00022	-0.00022	-0.00020
	(!A1 * !B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * B0 * B1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00032	0.00032	0.00033
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B1 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

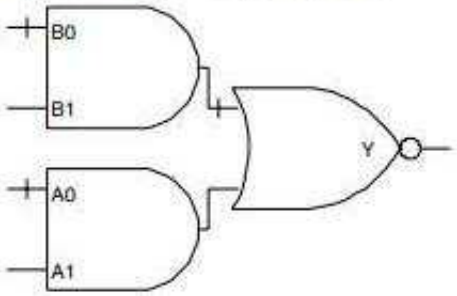
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI22X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1P4H7L	0.00084	0.00085	0.00094	0.00086	0.03428

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1P4H7L	0.00000	1.05853	2.84274

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7L	A0->Y (FR)	0.03490	0.18721	0.63783
	A1->Y (FR)	0.03164	0.18272	0.63432
	B0->Y (FR)	0.02526	0.17745	0.64028
	B1->Y (FR)	0.02776	0.18129	0.64420

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7L	A0->Y (RF)	0.01872	0.10608	0.40125
	A1->Y (RF)	0.01817	0.10588	0.41673
	B0->Y (RF)	0.00920	0.09920	0.41138
	B1->Y (RF)	0.01348	0.09926	0.39561

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	A0	0.00160	0.00171	0.00243
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00015	0.00015	0.00015
	A0	-0.00008	0.00004	0.00084
	A1	0.00141	0.00153	0.00239
	A1	-0.00014	-0.00014	-0.00012
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	0.00010	0.00104
	B0	0.00075	0.00098	0.00229
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00010	0.00010	0.00010
	B0	-0.00011	0.00013	0.00143
	B1	0.00108	0.00127	0.00230
	B1	-0.00005	-0.00005	0.00000
	B1	0.00014	0.00015	0.00015
	B1	-0.00016	0.00005	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	A0	-0.00011	0.00001	0.00074
	A0	0.00014	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00152	0.00164	0.00235
	A1	-0.00010	0.00006	0.00099
	A1	0.00014	0.00014	0.00014
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00129	0.00145	0.00236
	B0	-0.00011	0.00009	0.00127
	B0	0.00005	0.00006	0.00075
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00093	0.00112	0.00220
	B1	-0.00011	0.00005	0.00104
	B1	0.00000	0.00005	0.00006
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00115	0.00129	0.00220

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A1 * B0 * B1 * !Y)	-0.00016	-0.00014	-0.00010
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00026	0.00027	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00018
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !B1 * Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * B0 * B1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00024	0.00025	0.00026
	(!A0 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * B0 * B1 * !Y)	0.00015	0.00016	0.00016
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B1 falling (conditional):

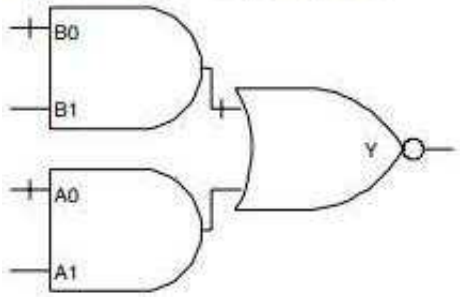
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7L	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B0 * Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	-0.00022	-0.00022	-0.00021

AOI22X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X2H7L	0.00137	0.00153	0.00148	0.00134	0.04470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X2H7L	0.00000	1.62074	4.37211

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7L	A0->Y (FR)	0.02727	0.17861	0.63694
	A1->Y (FR)	0.03081	0.18276	0.63897
	B0->Y (FR)	0.03823	0.18889	0.63340
	B1->Y (FR)	0.03451	0.18449	0.63021

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7L	A0->Y (RF)	0.01250	0.10168	0.41323
	A1->Y (RF)	0.01689	0.10236	0.39877
	B0->Y (RF)	0.02091	0.10927	0.40544
	B1->Y (RF)	0.01929	0.10881	0.41959

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7L	A0	0.00122	0.00154	0.00337
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00012	0.00013	0.00013
	A0	-0.00014	0.00019	0.00201
	A1	0.00171	0.00198	0.00341
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00019	0.00019	0.00019
	A1	-0.00024	0.00006	0.00166
	B0	0.00244	0.00260	0.00362
	B0	-0.00017	-0.00017	-0.00016
	B0	0.00019	0.00019	0.00019
	B0	-0.00010	0.00009	0.00122
	B1	0.00219	0.00237	0.00357
	B1	-0.00017	-0.00017	-0.00015
	B1	0.00012	0.00013	0.00017
	B1	-0.00001	0.00020	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7L	A0	-0.00009	0.00018	0.00184
	A0	0.00006	0.00006	0.00007
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00152	0.00177	0.00328
	A1	-0.00011	0.00011	0.00150
	A1	0.00005	0.00006	0.00017
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00187	0.00207	0.00333
	B0	-0.00015	0.00002	0.00106
	B0	0.00017	0.00017	0.00017
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00230	0.00249	0.00350
	B1	-0.00014	0.00009	0.00142
	B1	0.00017	0.00017	0.00017
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00193	0.00220	0.00350

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00047	0.00047	0.00048
	(!A1 * !B1 * Y)	-0.00043	-0.00043	-0.00042
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00047	-0.00046	-0.00045
	(!A1 * !B1 * Y)	0.00043	0.00043	0.00044
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00043	0.00043	0.00043
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !Y)	0.00058	0.00058	0.00058
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00057	0.00057	0.00057
	(!A0 * !B1 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * Y)	0.00036	0.00037	0.00037
	(!A0 * !B0 * B1 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * Y)	0.00036	0.00037	0.00037

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00058	-0.00058	-0.00058
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B1 * Y)	0.00037	0.00039	0.00040
	(!A0 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	-0.00034	-0.00033	-0.00032
	(!A0 * !B0 * B1 * Y)	0.00037	0.00038	0.00040
	(!A0 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * Y)	-0.00034	-0.00033	-0.00032

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * A1 * B1 * !Y)	-0.00020	-0.00017	-0.00013
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !Y)	0.00048	0.00049	0.00051
	(A0 * A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00044	0.00044	0.00045
	(A0 * !A1 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * Y)	0.00040	0.00040	0.00040
	(!A0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * Y)	0.00040	0.00040	0.00041

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * A1 * B1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * !A1 * !B1 * Y)	0.00032	0.00034	0.00036
	(A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * Y)	-0.00038	-0.00036	-0.00035
	(!A0 * !B1 * Y)	0.00032	0.00034	0.00036
	(!A0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	-0.00037	-0.00036	-0.00035

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * A1 * B0 * !Y)	-0.00021	-0.00018	-0.00013
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00038	0.00040	0.00042
	(A0 * A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00034	0.00035	0.00035
	(A0 * !A1 * !B0 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for B1 falling (conditional):

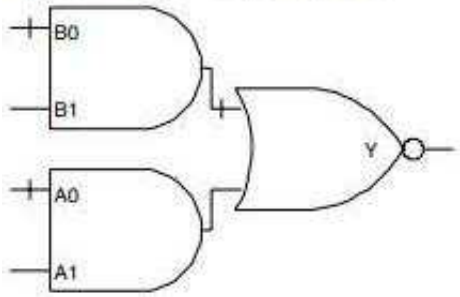
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7L	(A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !B0 * Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00010

AOI22X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X3H7L	0.00181	0.00162	0.00161	0.00176	0.06304

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X3H7L	0.00000	1.99537	5.37086

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7L	A0->Y (FR)	0.02702	0.18049	0.64267
	A1->Y (FR)	0.02344	0.17644	0.64288
	B0->Y (FR)	0.02986	0.18155	0.63618
	B1->Y (FR)	0.03348	0.18573	0.63843

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7L	A0->Y (RF)	0.00930	0.09836	0.39439
	A1->Y (RF)	0.00467	0.09761	0.40929
	B0->Y (RF)	0.01621	0.10410	0.41538
	B1->Y (RF)	0.01772	0.10458	0.40007

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7L	A0	0.00216	0.00251	0.00445
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00027	0.00027	0.00027
	A0	-0.00030	0.00011	0.00227
	A1	0.00147	0.00189	0.00440
	A1	-0.00009	-0.00009	-0.00005
	A1	0.00018	0.00018	0.00019
	A1	-0.00019	0.00026	0.00274
	B0	0.00268	0.00293	0.00459
	B0	-0.00025	-0.00024	-0.00024
	B0	0.00018	0.00018	0.00018
	B0	-0.00008	0.00021	0.00204
	B1	0.00303	0.00325	0.00464
	B1	-0.00025	-0.00025	-0.00024
	B1	0.00027	0.00027	0.00027
	B1	-0.00017	0.00007	0.00161

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7L	A0	-0.00018	0.00013	0.00202
	A0	0.00009	0.00009	0.00009
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00231	0.00258	0.00429
	A1	-0.00015	0.00022	0.00248
	A1	0.00008	0.00009	0.00010
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00187	0.00219	0.00425
	B0	-0.00019	0.00011	0.00189
	B0	0.00025	0.00025	0.00026
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00237	0.00277	0.00450
	B1	-0.00020	0.00002	0.00141
	B1	0.00025	0.00025	0.00025
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00289	0.00314	0.00450

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00068	0.00068	0.00069
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00066	0.00067	0.00067
	(!A1 * B0 * !B1 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	0.00044	0.00044	0.00044
	(!A1 * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00068	-0.00068	-0.00068
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00066	-0.00065	-0.00064
	(!A1 * B0 * !B1 * Y)	0.00046	0.00048	0.00050
	(!A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	-0.00041	-0.00039	-0.00036
	(!A1 * !B0 * Y)	0.00046	0.00048	0.00050
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00041	-0.00039	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00057	0.00057	0.00057
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00055	0.00056	0.00056
	(!A0 * B0 * !B1 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00057	-0.00057	-0.00056
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00055	-0.00054	-0.00053
	(!A0 * B0 * !B1 * Y)	0.00053	0.00053	0.00053
	(!A0 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00053	0.00053	0.00054
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * A1 * B1 * !Y)	-0.00028	-0.00024	-0.00018
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00045	0.00046	0.00049
	(A0 * A1 * !B1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00040	0.00040	0.00041
	(!A1 * !B1 * Y)	-0.00048	-0.00048	-0.00048
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * !B1 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * A1 * B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * A1 * !B1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00040	-0.00039	-0.00038
	(!A1 * !B1 * Y)	0.00048	0.00048	0.00049
	(!A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * !B1 * Y)	0.00048	0.00048	0.00049
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * A1 * B0 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00055	0.00056	0.00058
	(A0 * A1 * !B0 * !Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * !B0 * !Y)	0.00051	0.00051	0.00051
	(!A1 * !B0 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * !B0 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for B1 falling (conditional):

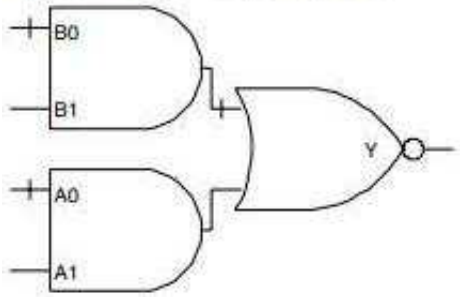
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7L	(A0 * A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00055	-0.00054	-0.00054
	(A0 * A1 * !B0 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00051	-0.00050	-0.00049
	(!A1 * !B0 * Y)	0.00041	0.00043	0.00044
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00044	-0.00042	-0.00039
	(!A0 * A1 * !B0 * Y)	0.00041	0.00043	0.00044
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	-0.00044	-0.00042	-0.00039

AOI22X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X4H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X4H7L	0.00285	0.00303	0.00270	0.00298	0.08903

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X4H7L	0.00000	3.24149	8.74422

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7L	A0->Y (FR)	0.02562	0.17686	0.63661
	A1->Y (FR)	0.02898	0.18119	0.63935
	B0->Y (FR)	0.03160	0.18141	0.62942
	B1->Y (FR)	0.03553	0.18614	0.63240

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7L	A0->Y (RF)	0.00800	0.10021	0.41221
	A1->Y (RF)	0.01190	0.10078	0.39847
	B0->Y (RF)	0.01847	0.10658	0.41796
	B1->Y (RF)	0.01933	0.10715	0.40347

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7L	A0	0.00253	0.00318	0.00693
	A0	-0.00012	-0.00012	-0.00009
	A0	0.00025	0.00025	0.00025
	A0	-0.00027	0.00042	0.00412
	A1	0.00350	0.00403	0.00694
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00037	0.00038	0.00038
	A1	-0.00046	0.00017	0.00342
	B0	0.00427	0.00465	0.00719
	B0	-0.00034	-0.00033	-0.00033
	B0	0.00024	0.00025	0.00031
	B0	-0.00014	0.00030	0.00310
	B1	0.00477	0.00511	0.00724
	B1	-0.00035	-0.00033	-0.00033
	B1	0.00038	0.00038	0.00038
	B1	-0.00034	0.00005	0.00240

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7L	A0	-0.00023	0.00035	0.00374
	A0	0.00011	0.00012	0.00014
	A0	-0.00013	-0.00012	-0.00011
	A0	0.00300	0.00360	0.00668
	A1	-0.00026	0.00021	0.00308
	A1	0.00010	0.00012	0.00015
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00373	0.00415	0.00675
	B0	-0.00027	0.00020	0.00292
	B0	0.00034	0.00034	0.00035
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00388	0.00444	0.00709
	B1	-0.00030	0.00006	0.00221
	B1	0.00033	0.00033	0.00036
	B1	-0.00025	-0.00025	-0.00025
	B1	0.00464	0.00503	0.00713

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00098	0.00099	0.00099
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00095	0.00096	0.00096
	(!A1 * B0 * !B1 * Y)	-0.00090	-0.00089	-0.00088
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * Y)	-0.00090	-0.00089	-0.00088
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00099	-0.00098	-0.00097
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00096	-0.00094	-0.00093
	(!A1 * B0 * !B1 * Y)	0.00089	0.00089	0.00090
	(!A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * Y)	0.00089	0.00089	0.00090
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00114	0.00115	0.00115
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00112	0.00112	0.00113
	(!A0 * B0 * !B1 * Y)	-0.00075	-0.00074	-0.00074
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	0.00071	0.00072	0.00072
	(!A0 * !B0 * Y)	-0.00074	-0.00074	-0.00074
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00071	0.00072	0.00072

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00115	-0.00114	-0.00112
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !Y)	-0.00112	-0.00110	-0.00108
	(!A0 * B0 * !B1 * Y)	0.00076	0.00078	0.00081
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * Y)	-0.00067	-0.00065	-0.00063
	(!A0 * !B0 * Y)	0.00076	0.00078	0.00081
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	-0.00067	-0.00065	-0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * A1 * B1 * !Y)	-0.00041	-0.00035	-0.00027
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00076	0.00079	0.00084
	(A0 * A1 * !B1 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00069	0.00070	0.00070
	(A0 * !A1 * !B1 * Y)	-0.00073	-0.00073	-0.00072
	(A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * Y)	-0.00073	-0.00072	-0.00072
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B1 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * A1 * B1 * !Y)	0.00045	0.00045	0.00046
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00075	-0.00075	-0.00074
	(A0 * A1 * !B1 * !Y)	0.00052	0.00052	0.00052
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	-0.00070	-0.00068	-0.00066
	(A0 * !A1 * !B1 * Y)	0.00073	0.00073	0.00074
	(A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * Y)	0.00073	0.00073	0.00074
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * A1 * B0 * !Y)	-0.00039	-0.00034	-0.00026
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00099	0.00101	0.00105
	(A0 * A1 * !B0 * !Y)	-0.00049	-0.00049	-0.00049
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00092	0.00093	0.00093
	(A0 * !A1 * !B0 * Y)	-0.00063	-0.00063	-0.00063
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00083	0.00083	0.00083
	(!A0 * !B0 * Y)	-0.00063	-0.00063	-0.00063
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00083	0.00083	0.00084

Passive power(pJ) for B1 falling (conditional):

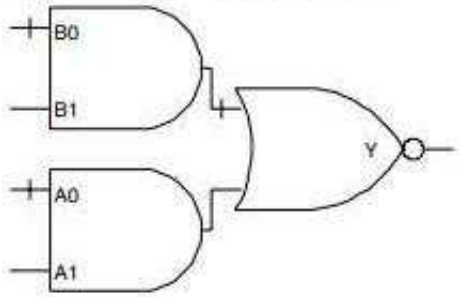
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7L	(A0 * A1 * B0 * !Y)	0.00042	0.00043	0.00043
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00098	-0.00097	-0.00097
	(A0 * A1 * !B0 * !Y)	0.00049	0.00049	0.00049
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00093	-0.00091	-0.00090
	(A0 * !A1 * !B0 * Y)	0.00065	0.00067	0.00071
	(A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00078	-0.00076	-0.00074
	(!A0 * !B0 * Y)	0.00065	0.00068	0.00071
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	-0.00078	-0.00076	-0.00074

AOI22X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X6H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X6H7L	0.00340	0.00353	0.00331	0.00347	0.12545

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X6H7L	0.00000	3.99074	10.74170

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7L	A0->Y (FR)	0.02201	0.17477	0.64196
	A1->Y (FR)	0.02533	0.17896	0.64287
	B0->Y (FR)	0.02800	0.17943	0.63366
	B1->Y (FR)	0.03160	0.18383	0.63760

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7L	A0->Y (RF)	0.00087	0.09628	0.40838
	A1->Y (RF)	0.00506	0.09680	0.39329
	B0->Y (RF)	0.01519	0.10256	0.41410
	B1->Y (RF)	0.01657	0.10292	0.39882

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7L	A0	0.00296	0.00384	0.00894
	A0	-0.00018	-0.00017	-0.00010
	A0	0.00021	0.00036	0.00043
	A0	-0.00041	0.00054	0.00558
	A1	0.00429	0.00500	0.00894
	A1	-0.00018	-0.00017	-0.00006
	A1	0.00054	0.00054	0.00055
	A1	-0.00058	0.00026	0.00465
	B0	0.00533	0.00585	0.00926
	B0	-0.00049	-0.00049	-0.00048
	B0	0.00035	0.00036	0.00036
	B0	-0.00023	0.00037	0.00415
	B1	0.00599	0.00643	0.00929
	B1	-0.00050	-0.00049	-0.00046
	B1	0.00054	0.00055	0.00055
	B1	-0.00042	0.00009	0.00325

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7L	A0	-0.00031	0.00046	0.00506
	A0	0.00012	0.00018	0.00021
	A0	-0.00018	-0.00017	-0.00016
	A0	0.00371	0.00443	0.00862
	A1	-0.00035	0.00028	0.00417
	A1	0.00016	0.00018	0.00019
	A1	-0.00036	-0.00036	-0.00036
	A1	0.00458	0.00513	0.00865
	B0	-0.00039	0.00023	0.00384
	B0	0.00050	0.00051	0.00051
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00478	0.00557	0.00911
	B1	-0.00041	0.00005	0.00291
	B1	0.00050	0.00051	0.00051
	B1	-0.00036	-0.00036	-0.00036
	B1	0.00576	0.00628	0.00908

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !Y)	0.00117	0.00117	0.00118
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00113	0.00114	0.00114
	(!A1 * B0 * !B1 * Y)	-0.00109	-0.00108	-0.00107
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * B0 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * Y)	-0.00109	-0.00108	-0.00107
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00117	-0.00116	-0.00115
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00113	-0.00111	-0.00108
	(!A1 * B0 * !B1 * Y)	0.00108	0.00109	0.00109
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	0.00108	0.00109	0.00109
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !Y)	0.00132	0.00132	0.00132
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !Y)	0.00128	0.00128	0.00129
	(!A0 * B0 * !B1 * Y)	-0.00087	-0.00087	-0.00087
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	0.00086	0.00087	0.00087
	(!A0 * !B0 * Y)	-0.00087	-0.00087	-0.00086
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00086	0.00087	0.00087

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00132	-0.00131	-0.00130
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !Y)	-0.00127	-0.00125	-0.00123
	(!A0 * B0 * !B1 * Y)	0.00089	0.00092	0.00096
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	-0.00080	-0.00078	-0.00075
	(!A0 * !B0 * Y)	0.00089	0.00092	0.00096
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00080	-0.00078	-0.00075

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * A1 * B1 * !Y)	-0.00058	-0.00050	-0.00038
	(A0 * A1 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * !Y)	0.00089	0.00092	0.00099
	(A0 * A1 * !B1 * !Y)	-0.00073	-0.00072	-0.00072
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	0.00080	0.00081	0.00082
	(A0 * !A1 * !B1 * Y)	-0.00098	-0.00098	-0.00097
	(A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * Y)	0.00008	0.00008	0.00009
	(A0 * !A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * Y)	-0.00098	-0.00097	-0.00097
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !B1 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * A1 * B1 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00088	-0.00087	-0.00086
	(A0 * A1 * !B1 * !Y)	0.00072	0.00073	0.00073
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	-0.00080	-0.00079	-0.00077
	(A0 * !A1 * !B1 * Y)	0.00098	0.00098	0.00099
	(A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * Y)	0.00098	0.00099	0.00099
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B1 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * A1 * B0 * !Y)	-0.00053	-0.00046	-0.00036
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00111	0.00113	0.00117
	(A0 * A1 * !B0 * !Y)	-0.00065	-0.00065	-0.00065
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	0.00104	0.00104	0.00104
	(A0 * !A1 * !B0 * Y)	-0.00079	-0.00079	-0.00078
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00094	0.00095	0.00095
	(!A0 * !B0 * Y)	-0.00079	-0.00079	-0.00078
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00094	0.00095	0.00095

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7L	(A0 * A1 * B0 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00110	-0.00110	-0.00109
	(A0 * A1 * !B0 * !Y)	0.00065	0.00065	0.00066
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	-0.00103	-0.00101	-0.00099
	(A0 * !A1 * !B0 * Y)	0.00081	0.00085	0.00090
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00089	-0.00086	-0.00083
	(!A0 * !B0 * Y)	0.00081	0.00085	0.00090
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00089	-0.00086	-0.00083

AOI2BB1X0P5H7L

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P5H7L	0.00078	0.00073	0.00076	0.02424

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P5H7L	0.00000	1.56036	2.40431

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7L	A0->YN (RR)	0.04199	0.16727	0.47935
	A1->YN (RR)	0.04057	0.16394	0.47440
	B0->YN (FR)	0.02717	0.18629	0.66318

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7L	A0->YN (FF)	0.04864	0.12325	0.31089
	A1->YN (FF)	0.04532	0.12265	0.31534
	B0->YN (RF)	-0.00957	0.07088	0.31751

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	A0	0.00058	0.00079	0.00147
	A0	0.00000	0.00000	0.00000
	A0	0.00000	0.00000	0.00000
	A0	0.00109	0.00130	0.00198
	A1	0.00060	0.00083	0.00160
	A1	-0.00003	-0.00003	0.00002
	A1	0.00000	0.00000	0.00000
	A1	0.00098	0.00121	0.00197
	B0	0.00055	0.00070	0.00157
	B0	-0.00002	-0.00001	-0.00001
	B0	0.00003	0.00003	0.00003
	B0	-0.00004	0.00012	0.00099

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	A0	0.00113	0.00132	0.00205
	A0	0.00000	0.00000	0.00000
	A0	-0.00000	-0.00000	0.00000
	A0	0.00060	0.00079	0.00152
	A1	0.00100	0.00124	0.00213
	A1	0.00003	0.00003	0.00003
	A1	-0.00000	-0.00000	0.00000
	A1	0.00061	0.00085	0.00174
	B0	-0.00006	0.00008	0.00091
	B0	0.00001	0.00001	0.00002
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00048	0.00066	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00026	0.00027	0.00027
	(!A1 * B0 * !YN)	0.00002	0.00021	0.00087
	(!A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN)	0.00082	0.00101	0.00167

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN)	0.00099	0.00117	0.00184
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !YN)	0.00018	0.00036	0.00102

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A0 * B0 * !YN)	0.00004	0.00025	0.00100
	(!A0 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00071	0.00093	0.00168

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !YN)	0.00086	0.00109	0.00188
	(!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	0.00018	0.00041	0.00120

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !YN)	0.00031	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7L	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00031	-0.00030	-0.00030

AOI2BB1X0P7H7L

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P7H7L	0.00078	0.00073	0.00081	0.02739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P7H7L	0.00000	1.61977	2.54788

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7L	A0->YN (RR)	0.04050	0.16662	0.47944
	A1->YN (RR)	0.03907	0.16334	0.47483
	B0->YN (FR)	0.02505	0.18427	0.66336

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7L	A0->YN (FF)	0.04902	0.12398	0.31174
	A1->YN (FF)	0.04569	0.12342	0.31663
	B0->YN (RF)	-0.01270	0.06940	0.31670

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	A0	0.00063	0.00084	0.00151
	A0	-0.00000	-0.00000	-0.00000
	A0	0.00000	0.00001	0.00001
	A0	0.00111	0.00133	0.00200
	A1	0.00065	0.00088	0.00164
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00000	0.00001	0.00001
	A1	0.00101	0.00124	0.00200
	B0	0.00058	0.00075	0.00173
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00003	0.00003	0.00004
	B0	-0.00004	0.00013	0.00110

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	A0	0.00117	0.00136	0.00210
	A0	0.00000	0.00000	0.00000
	A0	-0.00000	-0.00001	-0.00000
	A0	0.00067	0.00086	0.00160
	A1	0.00104	0.00128	0.00218
	A1	0.00003	0.00003	0.00004
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00067	0.00092	0.00182
	B0	-0.00007	0.00009	0.00101
	B0	0.00001	0.00002	0.00002
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00052	0.00071	0.00164

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00026	0.00026	0.00027
	(!A1 * B0 * !YN)	0.00003	0.00022	0.00088
	(!A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN)	0.00083	0.00102	0.00168

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN)	0.00102	0.00120	0.00186
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !YN)	0.00021	0.00038	0.00104

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A0 * B0 * !YN)	0.00005	0.00026	0.00100
	(!A0 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00072	0.00094	0.00168

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !YN)	0.00089	0.00112	0.00190
	(!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	0.00021	0.00043	0.00121

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !YN)	0.00032	0.00033	0.00033

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7L	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00033	-0.00032	-0.00032

AOI2BB1X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1H7L	0.00078	0.00073	0.00089	0.03064

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1H7L	0.00000	1.71987	2.78862

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7L	A0->YN (RR)	0.03877	0.15966	0.45713
	A1->YN (RR)	0.03733	0.15640	0.45257
	B0->YN (FR)	0.02260	0.17538	0.64124

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7L	A0->YN (FF)	0.04957	0.12365	0.30814
	A1->YN (FF)	0.04624	0.12314	0.31335
	B0->YN (RF)	-0.01578	0.06623	0.30640

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	A0	0.00071	0.00092	0.00160
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00001	0.00001	0.00001
	A0	0.00115	0.00137	0.00205
	A1	0.00073	0.00097	0.00173
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00001	0.00001	0.00001
	A1	0.00104	0.00128	0.00204
	B0	0.00064	0.00084	0.00198
	B0	-0.00002	-0.00002	0.00000
	B0	0.00004	0.00004	0.00004
	B0	-0.00006	0.00015	0.00129

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	A0	0.00121	0.00141	0.00216
	A0	0.00001	0.00002	0.00002
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00075	0.00095	0.00170
	A1	0.00108	0.00133	0.00225
	A1	0.00004	0.00005	0.00005
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00076	0.00100	0.00193
	B0	-0.00008	0.00011	0.00117
	B0	0.00000	0.00002	0.00003
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00057	0.00078	0.00187

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00026	0.00026	0.00028
	(!A1 * B0 * !YN)	0.00005	0.00023	0.00089
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN)	0.00086	0.00104	0.00169

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !YN)	0.00105	0.00123	0.00187
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !YN)	0.00023	0.00041	0.00105

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A0 * B0 * !YN)	0.00007	0.00028	0.00101
	(!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00075	0.00096	0.00170

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !YN)	0.00092	0.00114	0.00191
	(!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	0.00023	0.00045	0.00122

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !YN)	0.00035	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7L	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00035	-0.00035	-0.00034

AOI2BB1X1P4H7L

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1P4H7L	0.00081	0.00074	0.00095	0.03708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1P4H7L	0.00000	1.83158	3.05789

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7L	A0->YN (RR)	0.03776	0.16663	0.48381
	A1->YN (RR)	0.03630	0.16342	0.47936
	B0->YN (FR)	0.02086	0.18113	0.66536

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7L	A0->YN (FF)	0.05030	0.12730	0.31829
	A1->YN (FF)	0.04693	0.12678	0.32335
	B0->YN (RF)	-0.01922	0.06776	0.31832

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	A0	0.00078	0.00099	0.00168
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00002	0.00002	0.00002
	A0	0.00120	0.00141	0.00210
	A1	0.00080	0.00103	0.00180
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00002	0.00002	0.00002
	A1	0.00108	0.00132	0.00208
	B0	0.00068	0.00090	0.00222
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00004	0.00005	0.00005
	B0	-0.00007	0.00017	0.00147

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	A0	0.00126	0.00145	0.00222
	A0	0.00002	0.00002	0.00002
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00082	0.00101	0.00178
	A1	0.00113	0.00137	0.00232
	A1	0.00005	0.00006	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00083	0.00108	0.00203
	B0	-0.00044	0.00011	0.00133
	B0	0.00002	0.00003	0.00042
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00062	0.00085	0.00209

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A1 * B0 * !YN)	0.00006	0.00025	0.00090
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN)	0.00089	0.00108	0.00172

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !YN)	0.00109	0.00126	0.00189
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !YN)	0.00024	0.00042	0.00105

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00028	0.00028	0.00028
	(!A0 * B0 * !YN)	0.00008	0.00029	0.00102
	(!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00078	0.00098	0.00171

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !YN)	0.00095	0.00117	0.00193
	(!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	0.00025	0.00047	0.00123

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !YN)	0.00037	0.00037	0.00038

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7L	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00037	-0.00037	-0.00036

AOI2BB1X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X2H7L	0.00075	0.00082	0.00104	0.04353

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X2H7L	0.00000	2.02322	3.51636

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7L	A0->YN (RR)	0.03510	0.16440	0.48194
	A1->YN (RR)	0.03437	0.16185	0.47822
	B0->YN (FR)	0.01849	0.17866	0.66622

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7L	A0->YN (FF)	0.04826	0.12540	0.31537
	A1->YN (FF)	0.04691	0.12627	0.32132
	B0->YN (RF)	-0.02496	0.06516	0.31370

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	A0	0.00084	0.00105	0.00177
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00003	0.00003	0.00003
	A0	0.00119	0.00140	0.00212
	A1	0.00084	0.00108	0.00186
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00003	0.00003	0.00003
	A1	0.00108	0.00132	0.00211
	B0	0.00071	0.00098	0.00256
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00006	0.00006	0.00006
	B0	-0.00012	0.00016	0.00173

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	A0	0.00125	0.00144	0.00226
	A0	0.00004	0.00004	0.00004
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00088	0.00107	0.00189
	A1	0.00115	0.00140	0.00240
	A1	0.00007	0.00007	0.00007
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00089	0.00114	0.00214
	B0	-0.00011	0.00014	0.00160
	B0	0.00002	0.00003	0.00003
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00067	0.00095	0.00243

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00027	0.00027	0.00028
	(!A1 * B0 * !YN)	0.00010	0.00028	0.00093
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN)	0.00091	0.00109	0.00174

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN)	0.00107	0.00124	0.00187
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !YN)	0.00024	0.00041	0.00104

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00031	0.00031	0.00031
	(!A0 * B0 * !YN)	0.00010	0.00030	0.00103
	(!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00081	0.00101	0.00173

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00031	-0.00031	-0.00030
	(!A0 * B0 * !YN)	0.00098	0.00119	0.00194
	(!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	0.00026	0.00047	0.00122

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(!A0 * !A1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !YN)	0.00040	0.00041	0.00041

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7L	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00041	-0.00040	-0.00040

AOI2BB1X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X3H7L	0.00091	0.00083	0.00175	0.06710

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X3H7L	0.00000	2.97958	5.60414

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7L	A0->YN (RR)	0.03860	0.17136	0.49396
	A1->YN (RR)	0.03723	0.16847	0.48913
	B0->YN (FR)	0.01841	0.17853	0.66405

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7L	A0->YN (FF)	0.05456	0.13523	0.33055
	A1->YN (FF)	0.05140	0.13497	0.33591
	B0->YN (RF)	-0.02600	0.06524	0.31313

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	A0	0.00171	0.00197	0.00282
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00005	0.00005	0.00005
	A0	0.00188	0.00214	0.00299
	A1	0.00173	0.00201	0.00294
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00005	0.00005	0.00005
	A1	0.00172	0.00201	0.00294
	B0	0.00132	0.00175	0.00427
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00008	0.00009	0.00009
	B0	-0.00006	0.00039	0.00289

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	A0	0.00183	0.00206	0.00310
	A0	0.00006	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00159	0.00185	0.00289
	A1	0.00167	0.00198	0.00331
	A1	0.00010	0.00011	0.00011
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00162	0.00194	0.00328
	B0	-0.00019	0.00021	0.00253
	B0	0.00001	0.00004	0.00006
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00112	0.00156	0.00392

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00032	0.00032	0.00033
	(!A1 * B0 * !YN)	0.00024	0.00046	0.00121
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !YN)	0.00121	0.00143	0.00218

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00012	0.00012	0.00012
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00032	-0.00031	-0.00031
	(!A1 * B0 * !YN)	0.00144	0.00163	0.00233
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * !YN)	0.00044	0.00063	0.00132

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00031	0.00032	0.00032
	(!A0 * B0 * !YN)	0.00027	0.00050	0.00134
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * !YN)	0.00106	0.00130	0.00214

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00032	-0.00031	-0.00031
	(!A0 * B0 * !YN)	0.00128	0.00152	0.00238
	(!A0 * B0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00047	0.00070	0.00156

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(!A0 * !A1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00067	0.00067	0.00067

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7L	(!A0 * !A1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !YN)	-0.00067	-0.00066	-0.00066

AOI2BB1X4H7L

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X4H7L	0.00091	0.00099	0.00204	0.08574

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X4H7L	0.00000	3.60341	6.86270

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7L	A0->YN (RR)	0.03404	0.16573	0.48699
	A1->YN (RR)	0.03318	0.16325	0.48298
	B0->YN (FR)	0.01612	0.17653	0.66528

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7L	A0->YN (FF)	0.04941	0.12955	0.32315
	A1->YN (FF)	0.04758	0.13001	0.32849
	B0->YN (RF)	-0.03133	0.06315	0.31015

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	A0	0.00192	0.00224	0.00327
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	0.00200	0.00232	0.00335
	A1	0.00194	0.00228	0.00342
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00007	0.00007	0.00007
	A1	0.00186	0.00219	0.00334
	B0	0.00149	0.00204	0.00529
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00011	0.00012	0.00012
	B0	-0.00013	0.00045	0.00367

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	A0	0.00201	0.00228	0.00356
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00185	0.00215	0.00343
	A1	0.00184	0.00221	0.00384
	A1	0.00014	0.00014	0.00014
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00183	0.00225	0.00388
	B0	-0.00026	0.00026	0.00324
	B0	0.00003	0.00006	0.00007
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00120	0.00184	0.00486

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00031	0.00031
	(!A1 * B0 * !YN)	0.00028	0.00053	0.00142
	(!A1 * B0 * !YN)	0.00008	0.00008	0.00008
	(!A1 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * !YN)	0.00134	0.00159	0.00247

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00014	0.00015	0.00015
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * !YN)	0.00159	0.00181	0.00265
	(!A1 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * !YN)	0.00050	0.00072	0.00156

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00036	0.00036	0.00037
	(!A0 * B0 * !YN)	0.00030	0.00057	0.00156
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !YN)	0.00119	0.00147	0.00247

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(!A0 * B0 * !YN)	0.00143	0.00171	0.00274
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * !YN)	0.00050	0.00079	0.00181

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(!A0 * !A1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00076	0.00076	0.00077

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7L	(!A0 * !A1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !YN)	-0.00076	-0.00075	-0.00074

AOI2BB1X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X6H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X6H7L	0.00111	0.00107	0.00292	0.12894

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X6H7L	0.00000	5.11125	10.20180

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7L	A0->YN (RR)	0.03426	0.16837	0.49314
	A1->YN (RR)	0.03323	0.16582	0.48780
	B0->YN (FR)	0.01453	0.17466	0.66335

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7L	A0->YN (FF)	0.05300	0.13587	0.33350
	A1->YN (FF)	0.05059	0.13608	0.33914
	B0->YN (RF)	-0.03475	0.06235	0.31035

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	A0	0.00277	0.00316	0.00448
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00012	0.00012	0.00012
	A0	0.00260	0.00299	0.00431
	A1	0.00280	0.00322	0.00467
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00011	0.00012	0.00012
	A1	0.00239	0.00280	0.00426
	B0	0.00211	0.00295	0.00795
	B0	-0.00009	-0.00008	-0.00007
	B0	0.00017	0.00017	0.00018
	B0	-0.00022	0.00066	0.00561

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	A0	0.00268	0.00303	0.00476
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00268	0.00312	0.00486
	A1	0.00246	0.00293	0.00515
	A1	0.00022	0.00022	0.00022
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00278	0.00328	0.00551
	B0	-0.00038	0.00041	0.00498
	B0	0.00007	0.00008	0.00010
	B0	-0.00017	-0.00017	-0.00016
	B0	0.00176	0.00268	0.00732

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00017	-0.00016	-0.00014
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00036	0.00037	0.00038
	(!A1 * B0 * !YN)	0.00044	0.00072	0.00172
	(!A1 * B0 * !YN)	0.00010	0.00010	0.00011
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00170	0.00198	0.00298

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00018	0.00018	0.00019
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(!A1 * B0 * !YN)	0.00205	0.00230	0.00323
	(!A1 * B0 * !YN)	-0.00011	-0.00010	-0.00010
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * !YN)	0.00074	0.00098	0.00191

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00003	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00038	0.00039	0.00039
	(!A0 * B0 * !YN)	0.00047	0.00078	0.00189
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00006
	(!A0 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * !YN)	0.00149	0.00180	0.00292

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00039	-0.00039	-0.00038
	(!A0 * B0 * !YN)	0.00184	0.00216	0.00331
	(!A0 * B0 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * !YN)	0.00078	0.00110	0.00224

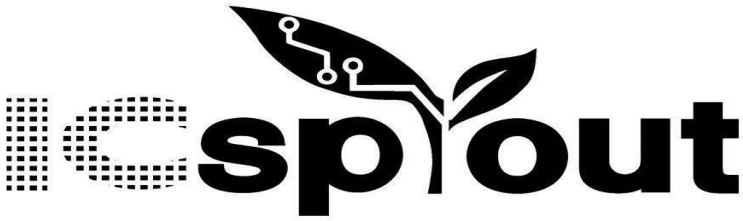
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(!A0 * !A1 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !YN)	0.00107	0.00109	0.00109

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7L	(!A0 * !A1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00108	-0.00107	-0.00106

AOI2BB2X0P5H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**B1**	**YN**
0	**0**	**x**	**x**	**0**
x	**1**	**0**	**x**	**1**
x	**1**	**1**	**0**	**1**
x	**1**	**1**	**1**	**0**
1	**x**	**0**	**x**	**1**
1	**x**	**1**	**0**	**1**
1	**x**	**1**	**1**	**0**

Footprint

Cell Name	Area
AOI2BB2X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P5H7L	0.00069	0.00086	0.00067	0.00072	0.02307

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P5H7L	0.00000	1.68375	2.40672

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7L	A0->YN (RR)	0.04473	0.16502	0.46213
	A1->YN (RR)	0.04484	0.16330	0.45897
	B0->YN (FR)	0.03477	0.18734	0.63826
	B1->YN (FR)	0.03249	0.18341	0.63437

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7L	A0->YN (FF)	0.04746	0.12188	0.30617
	A1->YN (FF)	0.04785	0.12421	0.31279
	B0->YN (RF)	0.02048	0.10893	0.40711
	B1->YN (RF)	0.01985	0.10920	0.42361

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	A0	0.00065	0.00087	0.00158
	A0	0.00003	0.00003	0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00118	0.00140	0.00214
	A1	0.00064	0.00088	0.00165
	A1	-0.00000	0.00000	0.00000
	A1	0.00003	0.00003	0.00003
	A1	0.00109	0.00133	0.00214
	B0	0.00092	0.00100	0.00155
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00006	0.00006	0.00006
	B0	0.00018	0.00026	0.00081
	B1	0.00082	0.00092	0.00155
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00003	0.00003	0.00003
	B1	0.00021	0.00031	0.00094

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	A0	0.00116	0.00137	0.00211
	A0	-0.00003	-0.00003	-0.00001
	A0	-0.00000	-0.00000	0.00000
	A0	0.00063	0.00083	0.00156
	A1	0.00110	0.00136	0.00226
	A1	-0.00000	0.00000	0.00002
	A1	-0.00000	-0.00000	0.00000
	A1	0.00065	0.00090	0.00178
	B0	-0.00007	0.00001	0.00053
	B0	0.00005	0.00006	0.00006
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00064	0.00073	0.00126
	B1	-0.00007	0.00004	0.00068
	B1	0.00005	0.00006	0.00006
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00050	0.00063	0.00128

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * !YN)	-0.00006	0.00013	0.00081
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !YN)	0.00074	0.00094	0.00161

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !YN)	0.00101	0.00119	0.00188
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !YN)	0.00019	0.00038	0.00107

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !YN)	-0.00007	0.00014	0.00089
	(!A0 * B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00066	0.00087	0.00162

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * !YN)	0.00095	0.00118	0.00197
	(!A0 * B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	0.00022	0.00045	0.00124

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00022	0.00023	0.00025
	(!A0 * !A1 * !B1 * !YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00014	0.00014	0.00015
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * !YN)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !YN)	0.00020	0.00020	0.00022
	(!A0 * !A1 * !B0 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00018	0.00018	0.00018

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00020	0.00020	0.00020
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00018	-0.00017	-0.00017

AOI2BB2X0P7H7L

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P7H7L	0.00069	0.00086	0.00072	0.00077	0.02615

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P7H7L	0.00000	1.75307	2.55052

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7L	A0->YN (RR)	0.04293	0.16433	0.46313
	A1->YN (RR)	0.04304	0.16264	0.46017
	B0->YN (FR)	0.03268	0.18587	0.64077
	B1->YN (FR)	0.03027	0.18179	0.63680

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7L	A0->YN (FF)	0.04744	0.12219	0.30668
	A1->YN (FF)	0.04788	0.12462	0.31359
	B0->YN (RF)	0.01901	0.10671	0.40541
	B1->YN (RF)	0.01834	0.10689	0.42102

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	A0	0.00070	0.00092	0.00164
	A0	0.00002	0.00003	0.00003
	A0	0.00004	0.00004	0.00004
	A0	0.00120	0.00143	0.00218
	A1	0.00069	0.00093	0.00171
	A1	-0.00000	-0.00000	0.00000
	A1	0.00004	0.00004	0.00004
	A1	0.00111	0.00136	0.00217
	B0	0.00099	0.00108	0.00170
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00007	0.00007	0.00007
	B0	0.00018	0.00027	0.00088
	B1	0.00087	0.00098	0.00170
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00003	0.00003	0.00004
	B1	0.00021	0.00032	0.00103

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	A0	0.00120	0.00141	0.00217
	A0	-0.00003	-0.00003	-0.00002
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00069	0.00089	0.00163
	A1	0.00114	0.00139	0.00232
	A1	0.00000	0.00000	0.00001
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00072	0.00097	0.00186
	B0	-0.00008	0.00001	0.00058
	B0	0.00006	0.00006	0.00006
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00070	0.00080	0.00138
	B1	-0.00008	0.00004	0.00076
	B1	0.00006	0.00006	0.00006
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00055	0.00068	0.00141

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * !YN)	-0.00006	0.00013	0.00080
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !YN)	0.00074	0.00094	0.00161

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !YN)	0.00103	0.00122	0.00190
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !YN)	0.00021	0.00040	0.00108

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !YN)	-0.00007	0.00014	0.00088
	(!A0 * B0 * B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00066	0.00088	0.00162

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * !YN)	0.00097	0.00120	0.00199
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	0.00024	0.00047	0.00126

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00024	0.00024	0.00026
	(!A0 * !A1 * !B1 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00022	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00015	0.00016	0.00017
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !YN)	0.00021	0.00022	0.00023
	(!A0 * !A1 * !B0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00020	0.00020	0.00020

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00022	0.00022	0.00022
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !YN)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00019	-0.00019	-0.00018

AOI2BB2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1H7L	0.00069	0.00086	0.00079	0.00084	0.03105

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1H7L	0.00000	1.86910	2.79183

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7L	A0->YN (RR)	0.04055	0.16337	0.46450
	A1->YN (RR)	0.04061	0.16166	0.46157
	B0->YN (FR)	0.03016	0.18405	0.64284
	B1->YN (FR)	0.02758	0.17974	0.63901

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7L	A0->YN (FF)	0.04757	0.12363	0.31038
	A1->YN (FF)	0.04804	0.12610	0.31761
	B0->YN (RF)	0.01762	0.10584	0.40832
	B1->YN (RF)	0.01680	0.10589	0.42366

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	A0	0.00077	0.00100	0.00173
	A0	0.00002	0.00002	0.00002
	A0	0.00003	0.00005	0.00005
	A0	0.00124	0.00147	0.00225
	A1	0.00076	0.00101	0.00180
	A1	-0.00001	-0.00001	0.00000
	A1	0.00005	0.00006	0.00008
	A1	0.00115	0.00140	0.00224
	B0	0.00109	0.00121	0.00192
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00008	0.00009	0.00009
	B0	0.00020	0.00030	0.00101
	B1	0.00096	0.00109	0.00193
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00004	0.00004	0.00004
	B1	0.00022	0.00036	0.00119

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	A0	0.00124	0.00145	0.00223
	A0	-0.00002	-0.00002	-0.00002
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00076	0.00097	0.00173
	A1	0.00118	0.00143	0.00240
	A1	0.00001	0.00001	0.00001
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00079	0.00104	0.00197
	B0	-0.00010	0.00001	0.00067
	B0	0.00008	0.00008	0.00008
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00077	0.00089	0.00157
	B1	-0.00010	0.00004	0.00087
	B1	0.00008	0.00008	0.00008
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00060	0.00075	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * !YN)	-0.00006	0.00013	0.00080
	(!A1 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !YN)	0.00075	0.00095	0.00161

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !YN)	0.00106	0.00125	0.00192
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !YN)	0.00024	0.00042	0.00109

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !YN)	-0.00007	0.00014	0.00088
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00067	0.00088	0.00162

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * !YN)	0.00100	0.00123	0.00201
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	0.00026	0.00049	0.00127

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	0.00000	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00024	0.00025	0.00026
	(!A0 * !A1 * B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00025	0.00026	0.00027
	(!A0 * !A1 * !B1 * !YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00023	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00017	0.00018	0.00019
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B1 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00016	-0.00014	-0.00012
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00023	0.00023	0.00025
	(!A0 * !A1 * !B0 * !YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00021	0.00021	0.00021

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00024	0.00024	0.00025
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00021	-0.00020	-0.00020

AOI2BB2X1P4H7L

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1P4H7L	0.00069	0.00086	0.00085	0.00090	0.03652

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1P4H7L	0.00000	1.99828	3.06166

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7L	A0->YN (RR)	0.03931	0.16679	0.47935
	A1->YN (RR)	0.03933	0.16509	0.47596
	B0->YN (FR)	0.02863	0.18677	0.65712
	B1->YN (FR)	0.02591	0.18222	0.65206

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7L	A0->YN (FF)	0.04787	0.12561	0.31585
	A1->YN (FF)	0.04836	0.12814	0.32342
	B0->YN (RF)	0.01653	0.10611	0.41338
	B1->YN (RF)	0.01570	0.10610	0.43020

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	A0	0.00084	0.00107	0.00182
	A0	0.00002	0.00002	0.00002
	A0	0.00007	0.00007	0.00007
	A0	0.00127	0.00151	0.00231
	A1	0.00084	0.00108	0.00189
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00007	0.00007	0.00007
	A1	0.00118	0.00144	0.00231
	B0	0.00121	0.00133	0.00214
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00010	0.00010	0.00010
	B0	0.00021	0.00033	0.00114
	B1	0.00104	0.00119	0.00215
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00004	0.00005	0.00005
	B1	0.00024	0.00039	0.00134

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	A0	0.00128	0.00148	0.00231
	A0	-0.00002	-0.00002	-0.00001
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00084	0.00105	0.00183
	A1	0.00122	0.00148	0.00249
	A1	0.00000	0.00001	0.00002
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00087	0.00112	0.00209
	B0	-0.00011	0.00001	0.00076
	B0	0.00009	0.00009	0.00009
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00086	0.00098	0.00175
	B1	-0.00011	0.00005	0.00099
	B1	0.00009	0.00009	0.00009
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00065	0.00082	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * !YN)	-0.00006	0.00013	0.00079
	(!A1 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !YN)	0.00076	0.00095	0.00161

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !YN)	0.00109	0.00127	0.00194
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !YN)	0.00026	0.00044	0.00111

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * !YN)	-0.00007	0.00014	0.00087
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00068	0.00088	0.00161

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * !YN)	0.00103	0.00125	0.00203
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !YN)	0.00029	0.00051	0.00129

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * !YN)	-0.00016	-0.00014	-0.00011
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00027	0.00028	0.00029
	(!A0 * !A1 * !B1 * !YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00019	0.00020	0.00021
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B1 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * !YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00025	-0.00024	-0.00024

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00018	-0.00016	-0.00014
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00024	0.00025	0.00027
	(!A0 * !A1 * !B0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00022	0.00022	0.00023

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00018	0.00019	0.00019
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !B0 * !YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00022	-0.00022	-0.00021

AOI2BB2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X2H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X2H7L	0.00078	0.00065	0.00148	0.00135	0.04627

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X2H7L	0.00000	2.72799	4.59038

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7L	A0->YN (RR)	0.04143	0.16620	0.46937
	A1->YN (RR)	0.04149	0.16786	0.47196
	B0->YN (FR)	0.03078	0.18377	0.64011
	B1->YN (FR)	0.02747	0.17954	0.63697

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7L	A0->YN (FF)	0.05496	0.13778	0.33734
	A1->YN (FF)	0.05466	0.13526	0.32969
	B0->YN (RF)	0.01788	0.10643	0.40868
	B1->YN (RF)	0.01642	0.10586	0.42326

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	A0	0.00127	0.00152	0.00238
	A0	-0.00001	-0.00001	0.00000
	A0	0.00009	0.00010	0.00010
	A0	0.00138	0.00165	0.00260
	A1	0.00127	0.00151	0.00231
	A1	0.00001	0.00001	0.00002
	A1	0.00009	0.00010	0.00010
	A1	0.00148	0.00174	0.00263
	B0	0.00186	0.00203	0.00318
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00012	0.00013	0.00013
	B0	0.00028	0.00046	0.00160
	B1	0.00159	0.00180	0.00317
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00001	0.00006	0.00007
	B1	0.00037	0.00059	0.00195

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	A0	0.00144	0.00171	0.00289
	A0	0.00000	0.00001	0.00003
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00133	0.00159	0.00269
	A1	0.00150	0.00172	0.00266
	A1	-0.00001	-0.00001	-0.00000
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00129	0.00149	0.00237
	B0	-0.00016	0.00001	0.00109
	B0	0.00011	0.00011	0.00011
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00135	0.00155	0.00264
	B1	-0.00014	0.00009	0.00143
	B1	0.00011	0.00011	0.00011
	B1	-0.00006	-0.00006	-0.00001
	B1	0.00100	0.00125	0.00262

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !YN)	-0.00006	0.00013	0.00083
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !YN)	0.00067	0.00086	0.00156

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * !YN)	0.00121	0.00142	0.00216
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !YN)	0.00048	0.00069	0.00144

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * !YN)	-0.00006	0.00012	0.00077
	(!A0 * B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00076	0.00095	0.00159

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * !YN)	0.00127	0.00144	0.00207
	(!A0 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * B0 * B1 * !YN)	0.00044	0.00061	0.00124

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	0.00000	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00042	0.00043	0.00044
	(!A0 * !A1 * B1 * !YN)	-0.00026	-0.00023	-0.00018
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00045	0.00047	0.00050
	(!A0 * !A1 * !B1 * !YN)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00042	0.00042	0.00043

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00033	0.00034	0.00035
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00000	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00040	-0.00039	-0.00038
	(!A0 * !A1 * B1 * !YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00045	-0.00044	-0.00044
	(!A0 * !A1 * !B1 * !YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00042	-0.00041	-0.00041

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00038	-0.00038	-0.00038
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00003	0.00003	0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !YN)	-0.00021	-0.00018	-0.00015
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00040	0.00041	0.00043
	(!A0 * !A1 * !B0 * !YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00038	0.00038	0.00038

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00038	0.00038	0.00039
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !YN)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00040	-0.00040	-0.00039
	(!A0 * !A1 * !B0 * !YN)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !B0 * !YN)	-0.00000	0.00001	0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00038	-0.00037	-0.00036

AOI2BB2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X3H7L	0.00085	0.00074	0.00167	0.00166	0.06493

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X3H7L	0.00000	3.29292	5.61104

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7L	A0->YN (RR)	0.03567	0.15974	0.46333
	A1->YN (RR)	0.03600	0.16169	0.46640
	B0->YN (FR)	0.02659	0.18057	0.64317
	B1->YN (FR)	0.02346	0.17668	0.64163

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7L	A0->YN (FF)	0.04840	0.13011	0.32606
	A1->YN (FF)	0.04890	0.12843	0.31973
	B0->YN (RF)	0.01418	0.10171	0.40278
	B1->YN (RF)	0.00901	0.10128	0.41756

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	A0	0.00153	0.00187	0.00295
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00014	0.00014	0.00018
	A0	0.00155	0.00188	0.00310
	A1	0.00156	0.00185	0.00285
	A1	0.00001	0.00001	0.00002
	A1	0.00014	0.00014	0.00018
	A1	0.00169	0.00200	0.00313
	B0	0.00227	0.00250	0.00407
	B0	-0.00017	-0.00016	-0.00016
	B0	0.00018	0.00018	0.00018
	B0	0.00033	0.00057	0.00212
	B1	0.00192	0.00221	0.00410
	B1	-0.00016	-0.00016	-0.00016
	B1	0.00009	0.00009	0.00010
	B1	0.00039	0.00069	0.00256

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	A0	0.00160	0.00194	0.00344
	A0	0.00002	0.00002	0.00004
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00162	0.00194	0.00334
	A1	0.00170	0.00196	0.00316
	A1	-0.00001	-0.00001	0.00001
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00157	0.00181	0.00293
	B0	-0.00021	0.00002	0.00147
	B0	0.00016	0.00016	0.00017
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00167	0.00191	0.00338
	B1	-0.00020	0.00010	0.00191
	B1	0.00016	0.00016	0.00016
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00121	0.00158	0.00341

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !YN)	-0.00008	0.00016	0.00102
	(!A1 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00073	0.00097	0.00183

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !YN)	0.00135	0.00161	0.00253
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * !YN)	0.00055	0.00081	0.00172

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00027	0.00028	0.00029
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00015	0.00092
	(!A0 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00004	-0.00003
	(!A0 * B0 * B1 * !YN)	0.00087	0.00109	0.00186

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00011	0.00012	0.00012
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * B1 * !YN)	0.00145	0.00166	0.00243
	(!A0 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00049	0.00070	0.00147

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00039	-0.00038	-0.00038
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00048	0.00049	0.00049
	(!A0 * !A1 * B1 * !YN)	-0.00032	-0.00028	-0.00024
	(!A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00051	0.00053	0.00056
	(!A0 * !A1 * !B1 * !YN)	-0.00037	-0.00037	-0.00036
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00047	0.00048	0.00048

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00039	0.00041	0.00043
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00000	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00045	-0.00044	-0.00043
	(!A0 * !A1 * B1 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00050	-0.00050	-0.00049
	(!A0 * !A1 * !B1 * !YN)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00047	-0.00047	-0.00045

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00050	-0.00049	-0.00049
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00004	0.00004	0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !YN)	-0.00028	-0.00025	-0.00021
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00050	0.00051	0.00053
	(!A0 * !A1 * !B0 * !YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00046	0.00047	0.00047

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00050	0.00050	0.00050
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00049	-0.00049	-0.00049
	(!A0 * !A1 * !B0 * !YN)	0.00032	0.00033	0.00034
	(!A0 * !A1 * !B0 * !YN)	-0.00001	0.00000	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00046	-0.00045	-0.00044

AOI2BB2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X4H7L	0.00113	0.00098	0.00286	0.00276	0.09240

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X4H7L	0.00000	4.41158	7.94156

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7L	A0->YN (RR)	0.03770	0.16540	0.47221
	A1->YN (RR)	0.03625	0.16245	0.46825
	B0->YN (FR)	0.02731	0.18025	0.63865
	B1->YN (FR)	0.02373	0.17570	0.63559

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7L	A0->YN (FF)	0.05764	0.14295	0.34776
	A1->YN (FF)	0.05422	0.14258	0.35277
	B0->YN (RF)	0.01396	0.10367	0.40769
	B1->YN (RF)	0.00957	0.10316	0.42252

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	A0	0.00224	0.00258	0.00381
	A0	0.00001	0.00001	0.00001
	A0	0.00020	0.00020	0.00020
	A0	0.00234	0.00271	0.00414
	A1	0.00227	0.00263	0.00398
	A1	-0.00004	-0.00003	-0.00000
	A1	0.00020	0.00020	0.00020
	A1	0.00212	0.00252	0.00408
	B0	0.00346	0.00384	0.00624
	B0	-0.00022	-0.00022	-0.00022
	B0	0.00024	0.00025	0.00025
	B0	0.00039	0.00078	0.00317
	B1	0.00301	0.00346	0.00637
	B1	-0.00022	-0.00022	-0.00022
	B1	0.00012	0.00012	0.00013
	B1	0.00058	0.00103	0.00392

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	A0	0.00243	0.00276	0.00428
	A0	-0.00001	-0.00001	0.00001
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00230	0.00263	0.00402
	A1	0.00224	0.00266	0.00463
	A1	0.00002	0.00004	0.00006
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00238	0.00277	0.00457
	B0	-0.00032	0.00005	0.00230
	B0	0.00022	0.00022	0.00022
	B0	-0.00025	-0.00025	-0.00024
	B0	0.00267	0.00304	0.00532
	B1	-0.00030	0.00017	0.00296
	B1	0.00022	0.00022	0.00022
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00200	0.00251	0.00534

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00040	0.00041	0.00041
	(!A1 * B0 * B1 * !YN)	-0.00011	0.00013	0.00098
	(!A1 * B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00005	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00118	0.00142	0.00227

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00040	-0.00040	-0.00039
	(!A1 * B0 * B1 * !YN)	0.00204	0.00227	0.00310
	(!A1 * B0 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	0.00074	0.00097	0.00181

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00018	0.00114
	(!A0 * B0 * B1 * !YN)	0.00006	0.00006	0.00007
	(!A0 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00097	0.00123	0.00220

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * B1 * !YN)	0.00184	0.00214	0.00317
	(!A0 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * B1 * !YN)	0.00080	0.00109	0.00212

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00063	-0.00062	-0.00062
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00078	0.00078	0.00079
	(!A0 * !A1 * B1 * !YN)	-0.00042	-0.00037	-0.00030
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00004
	(!A0 * !A1 * B1 * !YN)	0.00093	0.00095	0.00100
	(!A0 * !A1 * !B1 * !YN)	-0.00050	-0.00050	-0.00049
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00088	0.00088	0.00088

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00064	0.00066	0.00068
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00074	-0.00072	-0.00067
	(!A0 * !A1 * B1 * !YN)	0.00043	0.00044	0.00044
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00092	-0.00092	-0.00091
	(!A0 * !A1 * !B1 * !YN)	0.00050	0.00050	0.00051
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00088	-0.00086	-0.00085

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00080	-0.00079	-0.00078
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00004	0.00006	0.00006
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00018	0.00019	0.00020
	(!A0 * !A1 * B0 * !YN)	-0.00048	-0.00042	-0.00033
	(!A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00072	0.00076	0.00081
	(!A0 * !A1 * !B0 * !YN)	-0.00058	-0.00058	-0.00055
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00066	0.00066	0.00066

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00079	0.00080	0.00080
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00006	-0.00006	-0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * B0 * !YN)	0.00051	0.00052	0.00052
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00003	0.00003
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00071	-0.00070	-0.00070
	(!A0 * !A1 * !B0 * !YN)	0.00058	0.00059	0.00060
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00065	-0.00064	-0.00063

AOI2BB2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**B1**	**YN**
0	**0**	**x**	**x**	**0**
x	**1**	**0**	**x**	**1**
x	**1**	**1**	**0**	**1**
x	**1**	**1**	**1**	**0**
1	**x**	**0**	**x**	**1**
1	**x**	**1**	**0**	**1**
1	**x**	**1**	**1**	**0**

Footprint

Cell Name	Area
AOI2BB2X6H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X6H7L	0.00123	0.00134	0.00348	0.00338	0.12960

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X6H7L	0.00000	6.35671	11.04860

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7L	A0->YN (RR)	0.03678	0.16443	0.47243
	A1->YN (RR)	0.03614	0.16239	0.46935
	B0->YN (FR)	0.02498	0.17912	0.64250
	B1->YN (FR)	0.02132	0.17458	0.64104

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7L	A0->YN (FF)	0.05943	0.14536	0.35064
	A1->YN (FF)	0.05805	0.14673	0.35853
	B0->YN (RF)	0.00922	0.10029	0.40217
	B1->YN (RF)	0.00403	0.09972	0.41759

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	A0	0.00298	0.00344	0.00515
	A0	-0.00000	-0.00000	0.00000
	A0	0.00024	0.00030	0.00033
	A0	0.00295	0.00346	0.00549
	A1	0.00299	0.00347	0.00531
	A1	-0.00006	-0.00005	-0.00002
	A1	0.00028	0.00030	0.00030
	A1	0.00277	0.00330	0.00548
	B0	0.00446	0.00496	0.00815
	B0	-0.00033	-0.00032	-0.00032
	B0	0.00036	0.00036	0.00036
	B0	0.00055	0.00106	0.00423
	B1	0.00383	0.00441	0.00831
	B1	-0.00033	-0.00032	-0.00032
	B1	0.00017	0.00018	0.00018
	B1	0.00074	0.00134	0.00521

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	A0	0.00325	0.00368	0.00591
	A0	0.00000	0.00000	0.00004
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00320	0.00365	0.00568
	A1	0.00306	0.00364	0.00647
	A1	0.00004	0.00006	0.00011
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00320	0.00381	0.00639
	B0	-0.00043	0.00004	0.00300
	B0	0.00032	0.00032	0.00033
	B0	-0.00036	-0.00036	-0.00036
	B0	0.00336	0.00386	0.00686
	B1	-0.00042	0.00020	0.00390
	B1	0.00032	0.00032	0.00033
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00245	0.00317	0.00692

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00045	0.00046	0.00047
	(!A1 * B0 * B1 * !YN)	-0.00012	0.00018	0.00127
	(!A1 * B0 * B1 * !YN)	0.00014	0.00014	0.00015
	(!A1 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00142	0.00173	0.00280

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00017	0.00017	0.00017
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00046	-0.00045	-0.00044
	(!A1 * B0 * B1 * !YN)	0.00266	0.00295	0.00400
	(!A1 * B0 * B1 * !YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * B1 * !YN)	0.00111	0.00140	0.00245

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00003	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00051	0.00052	0.00052
	(!A0 * B0 * B1 * !YN)	-0.00010	0.00022	0.00141
	(!A0 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * B1 * !YN)	0.00125	0.00157	0.00277

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00051	-0.00051	-0.00050
	(!A0 * B0 * B1 * !YN)	0.00249	0.00285	0.00412
	(!A0 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00008
	(!A0 * B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * B1 * !YN)	0.00114	0.00150	0.00278

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00079	-0.00079	-0.00079
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00094	0.00095	0.00095
	(!A0 * !A1 * B1 * !YN)	-0.00056	-0.00050	-0.00042
	(!A0 * !A1 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !YN)	0.00111	0.00114	0.00119
	(!A0 * !A1 * !B1 * !YN)	-0.00066	-0.00065	-0.00063
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !YN)	0.00104	0.00104	0.00105

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00082	0.00085	0.00090
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00089	-0.00086	-0.00083
	(!A0 * !A1 * B1 * !YN)	0.00057	0.00058	0.00059
	(!A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00110	-0.00109	-0.00108
	(!A0 * !A1 * !B1 * !YN)	0.00063	0.00066	0.00066
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00002	0.00005
	(!A0 * !A1 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !YN)	-0.00103	-0.00101	-0.00095

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00101	-0.00100	-0.00099
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00008	0.00009	0.00012
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00017	0.00020	0.00021
	(!A0 * !A1 * B0 * !YN)	-0.00063	-0.00056	-0.00045
	(!A0 * !A1 * B0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00089	0.00093	0.00099
	(!A0 * !A1 * !B0 * !YN)	-0.00077	-0.00076	-0.00075
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !YN)	0.00081	0.00081	0.00082

Passive power(pJ) for B1 falling (conditional):

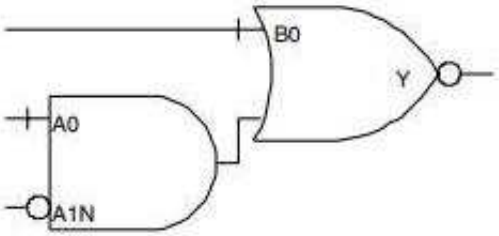
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7L	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00101	0.00102	0.00102
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B0 * !YN)	0.00067	0.00067	0.00068
	(!A0 * !A1 * B0 * !YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00087	-0.00086	-0.00085
	(!A0 * !A1 * !B0 * !YN)	0.00076	0.00077	0.00079
	(!A0 * !A1 * !B0 * !YN)	-0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !YN)	-0.00080	-0.00079	-0.00077

AOI2XB1X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P5H7L	0.00074	0.00085	0.00084	0.02394

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P5H7L	0.00000	1.41020	2.85847

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7L	A0->Y (FR)	0.03741	0.19440	0.65602
	A1N->Y (RR)	0.04618	0.17009	0.47971
	B0->Y (FR)	0.03207	0.19089	0.66279

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7L	A0->Y (RF)	0.02285	0.11450	0.42044
	A1N->Y (FF)	0.03887	0.13566	0.37699
	B0->Y (RF)	-0.00024	0.07259	0.31819

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	A0	0.00088	0.00096	0.00149
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00004	0.00012	0.00064
	A1N	0.00086	0.00113	0.00205
	A1N	-0.00004	-0.00004	-0.00004
	A1N	0.00002	0.00002	0.00002
	A1N	0.00112	0.00140	0.00231
	B0	0.00062	0.00079	0.00174
	B0	-0.00001	-0.00001	0.00000
	B0	0.00006	0.00006	0.00006
	B0	0.00000	0.00018	0.00112

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	A0	0.00007	0.00015	0.00065
	A0	0.00005	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00089	0.00098	0.00148
	A1N	0.00093	0.00124	0.00227
	A1N	0.00004	0.00004	0.00004
	A1N	-0.00002	-0.00002	-0.00002
	A1N	0.00065	0.00095	0.00199
	B0	0.00006	0.00020	0.00099
	B0	0.00000	0.00001	0.00002
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00072	0.00087	0.00168

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(A1N * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00024	0.00024	0.00025
	(A1N * !B0 * Y)	-0.00016	-0.00015	-0.00015
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00022	0.00022	0.00023
	(!A1N * B0 * !Y)	-0.00015	-0.00013	-0.00012
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(A1N * B0 * !Y)	0.00013	0.00013	0.00013
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1N * !B0 * Y)	0.00016	0.00017	0.00017
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1N * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(B0 * !Y)	0.00003	0.00030	0.00121
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00072	0.00099	0.00190
	(!A0 * !B0 * Y)	0.00012	0.00039	0.00132
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00082	0.00110	0.00202

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(B0 * !Y)	0.00080	0.00109	0.00208
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00009	0.00039	0.00138
	(!A0 * !B0 * Y)	0.00063	0.00094	0.00194
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	0.00023	0.00124

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

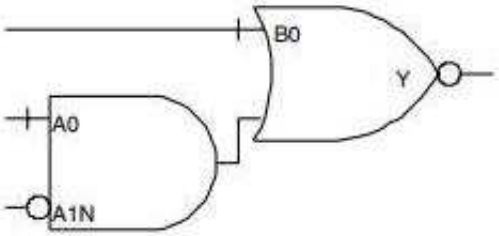
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7L	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00032	-0.00032	-0.00032

AOI2XB1X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P7H7L	0.00078	0.00085	0.00086	0.02623

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P7H7L	0.00000	1.45961	2.98137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7L	A0->Y (FR)	0.03466	0.18822	0.64286
	A1N->Y (RR)	0.04367	0.16476	0.46644
	B0->Y (FR)	0.02929	0.18468	0.64990

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7L	A0->Y (RF)	0.02103	0.10942	0.40859
	A1N->Y (FF)	0.03741	0.13179	0.36665
	B0->Y (RF)	-0.00366	0.06936	0.30940

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	A0	0.00092	0.00102	0.00161
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00007	0.00007	0.00007
	A0	0.00002	0.00012	0.00070
	A1N	0.00090	0.00118	0.00209
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00002	0.00002	0.00003
	A1N	0.00114	0.00141	0.00232
	B0	0.00064	0.00083	0.00190
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00019	0.00125

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	A0	0.00008	0.00017	0.00072
	A0	0.00006	0.00006	0.00006
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00095	0.00105	0.00161
	A1N	0.00095	0.00126	0.00230
	A1N	0.00005	0.00005	0.00005
	A1N	-0.00002	-0.00002	-0.00002
	A1N	0.00070	0.00100	0.00204
	B0	0.00006	0.00022	0.00111
	B0	0.00001	0.00002	0.00003
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00073	0.00093	0.00183

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(A1N * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00026	0.00026	0.00026
	(A1N * !B0 * Y)	-0.00017	-0.00017	-0.00016
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00023	0.00024	0.00024
	(!A1N * B0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00023	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(A1N * !B0 * Y)	0.00017	0.00018	0.00018
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00023	-0.00022	-0.00020
	(!A1N * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(B0 * !Y)	0.00004	0.00031	0.00122
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00073	0.00100	0.00191
	(!A0 * !B0 * Y)	0.00014	0.00041	0.00133
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00084	0.00111	0.00203

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(B0 * !Y)	0.00081	0.00110	0.00208
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00011	0.00040	0.00138
	(!A0 * !B0 * Y)	0.00063	0.00093	0.00194
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	0.00023	0.00123

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for B0 falling (conditional):

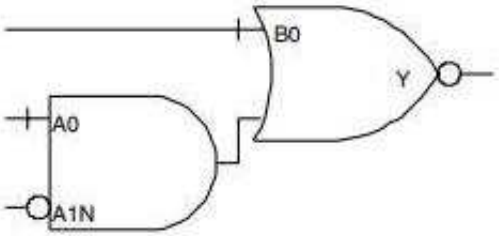
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7L	(A0 * !A1N * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00033	-0.00032	-0.00032

AOI2XB1X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1H7L	0.00084	0.00085	0.00092	0.03223

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1H7L	0.00000	1.54256	3.18488

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7L	A0->Y (FR)	0.03165	0.18987	0.65835
	A1N->Y (RR)	0.04127	0.16774	0.48372
	B0->Y (FR)	0.02651	0.18647	0.66453

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7L	A0->Y (RF)	0.01949	0.11080	0.42089
	A1N->Y (FF)	0.03656	0.13440	0.37734
	B0->Y (RF)	-0.00662	0.07040	0.31993

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	A0	0.00101	0.00112	0.00181
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00009	0.00008
	A0	0.00001	0.00012	0.00081
	A1N	0.00100	0.00127	0.00220
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00002	0.00003	0.00003
	A1N	0.00118	0.00146	0.00236
	B0	0.00070	0.00091	0.00217
	B0	-0.00002	-0.00002	0.00000
	B0	0.00008	0.00008	0.00008
	B0	-0.00001	0.00022	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	A0	0.00009	0.00019	0.00084
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00009	-0.00008
	A0	0.00106	0.00117	0.00182
	A1N	0.00099	0.00129	0.00235
	A1N	0.00006	0.00006	0.00006
	A1N	-0.00003	-0.00003	-0.00002
	A1N	0.00078	0.00108	0.00214
	B0	0.00007	0.00025	0.00129
	B0	0.00001	0.00002	0.00003
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00080	0.00102	0.00207

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(A1N * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00027	0.00027	0.00027
	(A1N * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1N * B0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(A1N * B0 * !Y)	0.00016	0.00016	0.00016
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1N * !B0 * Y)	0.00019	0.00020	0.00021
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1N * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(B0 * !Y)	0.00006	0.00032	0.00123
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	-0.00002	-0.00002	-0.00001
	(B0 * !Y)	0.00075	0.00102	0.00192
	(!A0 * !B0 * Y)	0.00017	0.00044	0.00135
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00087	0.00114	0.00206

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(B0 * !Y)	0.00083	0.00112	0.00209
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00012	0.00041	0.00139
	(!A0 * !B0 * Y)	0.00064	0.00093	0.00193
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	0.00023	0.00122

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00034	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

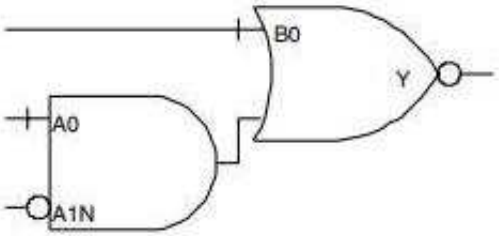
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7L	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00035	-0.00034	-0.00034

AOI2XB1X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1P4H7L	0.00088	0.00085	0.00099	0.03669

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1P4H7L	0.00000	1.63478	3.41103

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7L	A0->Y (FR)	0.02971	0.18825	0.65865
	A1N->Y (RR)	0.03984	0.16725	0.48426
	B0->Y (FR)	0.02535	0.18571	0.66539

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7L	A0->Y (RF)	0.01833	0.10854	0.41767
	A1N->Y (FF)	0.03607	0.13367	0.37595
	B0->Y (RF)	-0.00905	0.06937	0.31811

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	A0	0.00109	0.00121	0.00201
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	0.00000	0.00013	0.00092
	A1N	0.00107	0.00135	0.00225
	A1N	-0.00008	-0.00007	-0.00007
	A1N	0.00003	0.00003	0.00004
	A1N	0.00120	0.00148	0.00238
	B0	0.00078	0.00102	0.00244
	B0	-0.00003	-0.00002	0.00000
	B0	0.00010	0.00010	0.00010
	B0	0.00001	0.00026	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	A0	0.00010	0.00021	0.00095
	A0	0.00009	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00114	0.00128	0.00202
	A1N	0.00103	0.00133	0.00239
	A1N	0.00007	0.00007	0.00008
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00087	0.00117	0.00223
	B0	0.00007	0.00027	0.00144
	B0	0.00000	0.00002	0.00004
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00090	0.00111	0.00231

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(A1N * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00027	0.00028	0.00028
	(A1N * !B0 * Y)	-0.00021	-0.00021	-0.00020
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00025	0.00026	0.00026
	(!A1N * B0 * !Y)	-0.00019	-0.00017	-0.00015
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00025	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(A1N * B0 * !Y)	0.00018	0.00018	0.00018
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1N * !B0 * Y)	0.00021	0.00022	0.00023
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1N * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(B0 * !Y)	0.00008	0.00034	0.00123
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00077	0.00103	0.00193
	(!A0 * !B0 * Y)	0.00019	0.00046	0.00137
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * Y)	0.00090	0.00117	0.00208

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(B0 * !Y)	0.00085	0.00113	0.00210
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00014	0.00042	0.00139
	(!A0 * !B0 * Y)	0.00064	0.00094	0.00193
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00006	0.00023	0.00121

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00036	0.00037	0.00037

Passive power(pJ) for B0 falling (conditional):

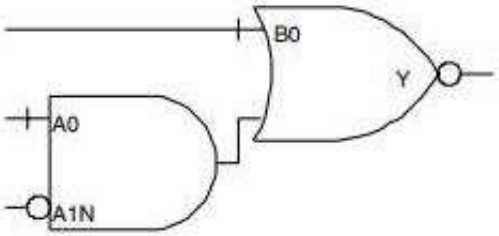
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7L	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00037	-0.00036	-0.00036

AOI2XB1X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X2H7L	0.00099	0.00087	0.00105	0.04308

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X2H7L	0.00000	1.79321	3.79464

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7L	A0->Y (FR)	0.02730	0.18580	0.65731
	A1N->Y (RR)	0.03849	0.16746	0.48810
	B0->Y (FR)	0.01937	0.17966	0.66488

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7L	A0->Y (RF)	0.01669	0.10456	0.40840
	A1N->Y (FF)	0.03585	0.13300	0.37314
	B0->Y (RF)	-0.01411	0.06674	0.31328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	A0	0.00118	0.00133	0.00229
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00012	0.00012	0.00012
	A0	-0.00006	0.00010	0.00105
	A1N	0.00117	0.00145	0.00237
	A1N	-0.00009	-0.00009	-0.00009
	A1N	0.00004	0.00004	0.00005
	A1N	0.00126	0.00153	0.00242
	B0	0.00081	0.00110	0.00281
	B0	-0.00003	-0.00003	0.00000
	B0	0.00012	0.00012	0.00012
	B0	-0.00003	0.00028	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	A0	0.00011	0.00025	0.00113
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00127	0.00146	0.00235
	A1N	0.00111	0.00141	0.00249
	A1N	0.00009	0.00009	0.00009
	A1N	-0.00004	-0.00004	-0.00004
	A1N	0.00100	0.00129	0.00238
	B0	0.00008	0.00032	0.00173
	B0	0.00000	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00098	0.00125	0.00268

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(A1N * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00031	0.00031	0.00031
	(A1N * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1N * B0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00028	0.00029	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(A1N * B0 * !Y)	0.00021	0.00021	0.00021
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00031	-0.00030	-0.00030
	(A1N * !B0 * Y)	0.00024	0.00025	0.00026
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A1N * !B0 * Y)	-0.00028	-0.00027	-0.00025
	(!A1N * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(B0 * !Y)	0.00012	0.00037	0.00125
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00083	0.00108	0.00197
	(!A0 * !B0 * Y)	0.00024	0.00050	0.00139
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00097	0.00123	0.00213

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(B0 * !Y)	0.00091	0.00118	0.00212
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00017	0.00044	0.00139
	(!A0 * !B0 * Y)	0.00067	0.00095	0.00192
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00007	0.00021	0.00119

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1N * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for B0 falling (conditional):

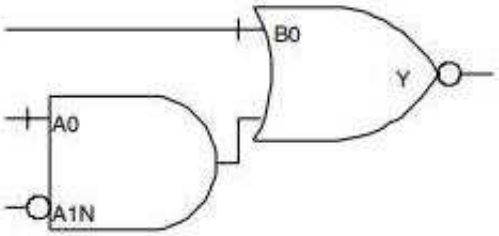
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7L	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00039	-0.00039	-0.00039

AOI2XB1X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X3H7L	0.00170	0.00095	0.00172	0.06426

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X3H7L	0.00000	2.59265	5.62428

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7L	A0->Y (FR)	0.02810	0.18272	0.64333
	A1N->Y (RR)	0.03847	0.16465	0.47444
	B0->Y (FR)	0.02344	0.18050	0.65310

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7L	A0->Y (RF)	0.01739	0.10423	0.40286
	A1N->Y (FF)	0.03672	0.13467	0.37431
	B0->Y (RF)	-0.01432	0.06514	0.30622

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	A0	0.00203	0.00227	0.00379
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00018	0.00018	0.00018
	A0	-0.00007	0.00018	0.00169
	A1N	0.00198	0.00233	0.00337
	A1N	-0.00015	-0.00014	-0.00014
	A1N	0.00007	0.00007	0.00007
	A1N	0.00174	0.00209	0.00312
	B0	0.00141	0.00188	0.00462
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00018	0.00018	0.00018
	B0	-0.00002	0.00048	0.00319

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	A0	0.00025	0.00046	0.00184
	A0	0.00016	0.00016	0.00017
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00229	0.00252	0.00392
	A1N	0.00151	0.00187	0.00323
	A1N	0.00014	0.00014	0.00015
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00170	0.00206	0.00342
	B0	0.00020	0.00059	0.00282
	B0	0.00003	0.00004	0.00007
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00170	0.00216	0.00443

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(A1N * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(A1N * B0 * !Y)	0.00055	0.00056	0.00056
	(A1N * !B0 * Y)	-0.00039	-0.00039	-0.00038
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00002
	(A1N * !B0 * Y)	0.00053	0.00053	0.00053
	(!A1N * B0 * !Y)	-0.00032	-0.00029	-0.00025
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00056	0.00057	0.00059

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(A1N * B0 * !Y)	0.00034	0.00034	0.00035
	(A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00056	-0.00055	-0.00053
	(A1N * !B0 * Y)	0.00040	0.00042	0.00045
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00050	-0.00048	-0.00045
	(!A1N * B0 * !Y)	0.00034	0.00034	0.00034
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00055	-0.00055	-0.00055

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(B0 * !Y)	0.00019	0.00048	0.00150
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00098	0.00127	0.00229
	(!A0 * !B0 * Y)	0.00041	0.00072	0.00177
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00123	0.00153	0.00258

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(B0 * !Y)	0.00121	0.00152	0.00262
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00039	0.00071	0.00182
	(!A0 * !B0 * Y)	0.00080	0.00113	0.00227
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00001	0.00032	0.00146

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00066	0.00067	0.00067

Passive power(pJ) for B0 falling (conditional):

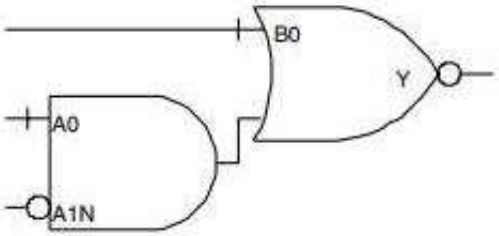
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7L	(A0 * !A1N * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1N * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1N * !Y)	-0.00067	-0.00066	-0.00065

AOI2XB1X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X4H7L	0.00195	0.00102	0.00206	0.08221

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X4H7L	0.00000	3.12955	6.87119

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7L	A0->Y (FR)	0.02543	0.18039	0.64267
	A1N->Y (RR)	0.03523	0.16129	0.47100
	B0->Y (FR)	0.02109	0.17869	0.65394

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7L	A0->Y (RF)	0.01149	0.10089	0.39721
	A1N->Y (FF)	0.03427	0.13140	0.36889
	B0->Y (RF)	-0.01888	0.06326	0.30331

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	A0	0.00237	0.00268	0.00465
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00023	0.00023	0.00024
	A0	-0.00015	0.00016	0.00212
	A1N	0.00233	0.00274	0.00396
	A1N	-0.00019	-0.00019	-0.00019
	A1N	0.00009	0.00009	0.00010
	A1N	0.00192	0.00232	0.00355
	B0	0.00164	0.00225	0.00575
	B0	-0.00006	-0.00005	-0.00002
	B0	0.00023	0.00023	0.00024
	B0	-0.00008	0.00056	0.00403

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	A0	0.00029	0.00056	0.00234
	A0	0.00021	0.00021	0.00022
	A0	-0.00024	-0.00023	-0.00023
	A0	0.00272	0.00304	0.00484
	A1N	0.00172	0.00215	0.00379
	A1N	0.00019	0.00019	0.00019
	A1N	-0.00009	-0.00009	-0.00009
	A1N	0.00208	0.00250	0.00415
	B0	0.00020	0.00070	0.00355
	B0	0.00002	0.00006	0.00008
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00210	0.00260	0.00549

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(A1N * B0 * !Y)	-0.00044	-0.00044	-0.00043
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1N * B0 * !Y)	0.00002	0.00002	0.00003
	(A1N * B0 * !Y)	0.00060	0.00060	0.00061
	(A1N * !B0 * Y)	-0.00048	-0.00047	-0.00047
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00002
	(A1N * !B0 * Y)	0.00057	0.00058	0.00059
	(!A1N * B0 * !Y)	-0.00040	-0.00036	-0.00031
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00061	0.00063	0.00066

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(A1N * B0 * !Y)	0.00043	0.00044	0.00044
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1N * B0 * !Y)	-0.00060	-0.00059	-0.00058
	(A1N * !B0 * Y)	0.00049	0.00052	0.00054
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00055	-0.00052	-0.00049
	(!A1N * B0 * !Y)	0.00042	0.00042	0.00042
	(!A1N * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00060	-0.00060	-0.00060

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(B0 * !Y)	0.00025	0.00060	0.00179
	(B0 * !Y)	0.00005	0.00005	0.00005
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00111	0.00145	0.00265
	(!A0 * !B0 * Y)	0.00051	0.00087	0.00211
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00141	0.00176	0.00300

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(B0 * !Y)	0.00136	0.00173	0.00303
	(B0 * !Y)	-0.00005	-0.00005	-0.00005
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00046	0.00084	0.00214
	(!A0 * !B0 * Y)	0.00087	0.00127	0.00261
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * Y)	-0.00002	0.00037	0.00171

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(A0 * !A1N * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1N * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00076	0.00077	0.00077

Passive power(pJ) for B0 falling (conditional):

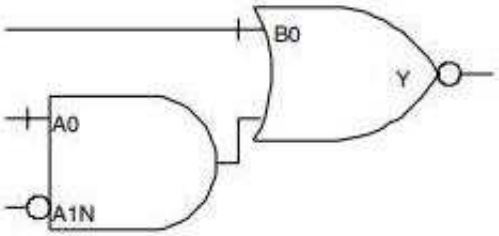
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7L	(A0 * !A1N * !Y)	0.00004	0.00004	0.00005
	(A0 * !A1N * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00077	-0.00076	-0.00076

AOI2XB1X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X6H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X6H7L	0.00290	0.00111	0.00301	0.12404

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X6H7L	0.00000	4.39351	10.21480

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7L	A0->Y (FR)	0.02349	0.17880	0.64441
	A1N->Y (RR)	0.03559	0.16526	0.48245
	B0->Y (FR)	0.01882	0.17651	0.65329

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7L	A0->Y (RF)	0.00832	0.10102	0.39959
	A1N->Y (FF)	0.03598	0.13668	0.38007
	B0->Y (RF)	-0.02208	0.06253	0.30433

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	A0	0.00338	0.00384	0.00687
	A0	-0.00032	-0.00032	-0.00032
	A0	0.00035	0.00035	0.00035
	A0	-0.00033	0.00015	0.00315
	A1N	0.00342	0.00392	0.00539
	A1N	-0.00030	-0.00029	-0.00029
	A1N	0.00015	0.00015	0.00015
	A1N	0.00253	0.00302	0.00449
	B0	0.00227	0.00319	0.00858
	B0	-0.00009	-0.00008	-0.00000
	B0	0.00035	0.00035	0.00035
	B0	-0.00021	0.00076	0.00610

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	A0	0.00048	0.00090	0.00362
	A0	0.00032	0.00032	0.00032
	A0	-0.00035	-0.00035	-0.00035
	A0	0.00403	0.00453	0.00729
	A1N	0.00234	0.00286	0.00496
	A1N	0.00029	0.00029	0.00030
	A1N	-0.00015	-0.00015	-0.00015
	A1N	0.00317	0.00368	0.00578
	B0	0.00032	0.00110	0.00548
	B0	0.00006	0.00008	0.00010
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00288	0.00385	0.00832

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(A1N * B0 * !Y)	-0.00065	-0.00065	-0.00064
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1N * B0 * !Y)	0.00003	0.00003	0.00005
	(A1N * B0 * !Y)	0.00086	0.00088	0.00089
	(A1N * !B0 * Y)	-0.00070	-0.00070	-0.00070
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	0.00086	0.00086	0.00088
	(!A1N * B0 * !Y)	-0.00058	-0.00053	-0.00045
	(!A1N * B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00091	0.00094	0.00098

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(A1N * B0 * !Y)	0.00064	0.00065	0.00065
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00005	-0.00003	-0.00003
	(A1N * B0 * !Y)	-0.00088	-0.00086	-0.00084
	(A1N * !B0 * Y)	0.00073	0.00076	0.00080
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	0.00000
	(A1N * !B0 * Y)	-0.00080	-0.00076	-0.00070
	(!A1N * B0 * !Y)	0.00061	0.00061	0.00061
	(!A1N * B0 * !Y)	0.00002	0.00003	0.00004
	(!A1N * B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1N * B0 * !Y)	-0.00090	-0.00090	-0.00089

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(B0 * !Y)	0.00044	0.00082	0.00217
	(B0 * !Y)	0.00006	0.00006	0.00006
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00139	0.00177	0.00312
	(!A0 * !B0 * Y)	0.00083	0.00124	0.00264
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * Y)	0.00186	0.00226	0.00366

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(B0 * !Y)	0.00177	0.00218	0.00363
	(B0 * !Y)	-0.00006	-0.00006	-0.00006
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	0.00077	0.00118	0.00264
	(!A0 * !B0 * Y)	0.00102	0.00146	0.00298
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * Y)	0.00000	0.00044	0.00196

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(A0 * !A1N * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1N * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00113	0.00114	0.00114

Passive power(pJ) for B0 falling (conditional):

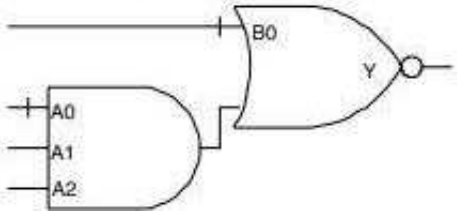
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7L	(A0 * !A1N * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1N * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00114	-0.00113	-0.00112

AOI31X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P5H7L	0.00065	0.00066	0.00073	0.00075	0.02244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P5H7L	0.00000	0.75768	2.18606

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7L	A0->Y (FR)	0.03897	0.18949	0.63181
	A1->Y (FR)	0.03623	0.18539	0.62835
	A2->Y (FR)	0.03398	0.18159	0.62482
	B0->Y (FR)	0.03342	0.18615	0.64059

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7L	A0->Y (RF)	0.03064	0.13905	0.46856
	A1->Y (RF)	0.02955	0.14514	0.51013
	A2->Y (RF)	0.02808	0.14314	0.51562
	B0->Y (RF)	0.00055	0.06905	0.30483

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	A0	0.00110	0.00117	0.00166
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	-0.00003	0.00005	0.00053
	A1	0.00099	0.00106	0.00155
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	0.00002	0.00010	0.00058
	A2	0.00089	0.00098	0.00154
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00000	0.00003	0.00008
	A2	0.00002	0.00013	0.00068
	B0	0.00066	0.00082	0.00175
	B0	-0.00001	-0.00001	0.00000
	B0	0.00009	0.00009	0.00009
	B0	-0.00011	0.00007	0.00107

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	A0	-0.00007	-0.00000	0.00043
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00103	0.00111	0.00155
	A1	-0.00007	0.00000	0.00046
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00085	0.00095	0.00141
	A2	-0.00007	0.00003	0.00060
	A2	0.00007	0.00007	0.00007
	A2	-0.00003	-0.00003	0.00000
	A2	0.00075	0.00085	0.00144
	B0	-0.00006	0.00011	0.00103
	B0	0.00000	0.00002	0.00016
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00082	0.00098	0.00179

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A1 * !A2 * !B0 * Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00021
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B0 * Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00002	0.00003	0.00002
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * !B0 * Y)	0.00012	0.00013	0.00013
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A1 * B0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00001
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

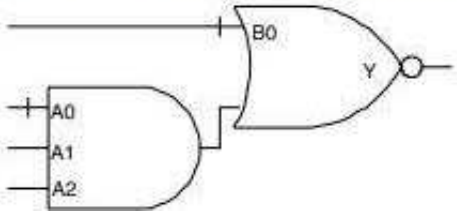
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00032	-0.00032	-0.00031

AOI31X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P7H7L	0.00068	0.00070	0.00077	0.00079	0.02548

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P7H7L	0.00000	0.80756	2.33045

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7L	A0->Y (FR)	0.03576	0.18696	0.63310
	A1->Y (FR)	0.03313	0.18295	0.62960
	A2->Y (FR)	0.03054	0.17874	0.62629
	B0->Y (FR)	0.03053	0.18411	0.64232

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7L	A0->Y (RF)	0.02768	0.13519	0.46500
	A1->Y (RF)	0.02669	0.14121	0.50657
	A2->Y (RF)	0.02496	0.13890	0.51148
	B0->Y (RF)	-0.00334	0.06739	0.30368

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	A0	0.00114	0.00122	0.00178
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	0.00001	0.00056
	A1	0.00102	0.00111	0.00166
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	0.00007	0.00062
	A2	0.00090	0.00101	0.00165
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00000	0.00003	0.00004
	A2	-0.00002	0.00009	0.00074
	B0	0.00068	0.00086	0.00191
	B0	-0.00002	-0.00002	0.00000
	B0	0.00011	0.00011	0.00011
	B0	-0.00015	0.00006	0.00119

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	A0	-0.00008	-0.00000	0.00049
	A0	0.00008	0.00008	0.00008
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00110	0.00120	0.00169
	A1	-0.00008	0.00000	0.00052
	A1	0.00008	0.00008	0.00008
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00092	0.00102	0.00154
	A2	-0.00008	0.00003	0.00068
	A2	0.00008	0.00008	0.00008
	A2	-0.00004	-0.00003	0.00000
	A2	0.00078	0.00091	0.00157
	B0	-0.00021	0.00012	0.00116
	B0	0.00000	0.00002	0.00023
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00088	0.00106	0.00196

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A1 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B0 * Y)	0.00013	0.00013	0.00014
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * Y)	0.00013	0.00013	0.00014
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A2 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00021	0.00022	0.00023
	(A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A2 * !B0 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * !B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A1 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00033	0.00033	0.00034

Passive power(pJ) for B0 falling (conditional):

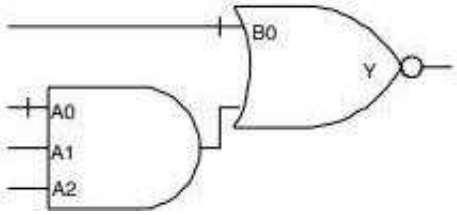
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00033	-0.00033	-0.00033

AOI31X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1H7L	0.00073	0.00077	0.00083	0.00092	0.03020

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1H7L	0.00000	0.89122	2.57233

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7L	A0->Y (FR)	0.03402	0.18592	0.63582
	A1->Y (FR)	0.03166	0.18218	0.63271
	A2->Y (FR)	0.02852	0.17741	0.62840
	B0->Y (FR)	0.02964	0.18366	0.64438

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7L	A0->Y (RF)	0.02651	0.13471	0.46766
	A1->Y (RF)	0.02578	0.14088	0.50989
	A2->Y (RF)	0.02349	0.13810	0.51405
	B0->Y (RF)	-0.00438	0.06762	0.30662

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7L	A0	0.00132	0.00142	0.00205
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00013	0.00013	0.00013
	A0	-0.00007	0.00003	0.00066
	A1	0.00119	0.00129	0.00193
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00008	0.00009	0.00009
	A1	-0.00002	0.00009	0.00072
	A2	0.00104	0.00116	0.00192
	A2	-0.00010	-0.00010	-0.00009
	A2	0.00004	0.00004	0.00011
	A2	-0.00003	0.00011	0.00085
	B0	0.00083	0.00104	0.00224
	B0	-0.00002	-0.00002	0.00000
	B0	0.00012	0.00013	0.00013
	B0	-0.00010	0.00014	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7L	A0	-0.00009	-0.00001	0.00055
	A0	0.00009	0.00010	0.00010
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00127	0.00137	0.00194
	A1	-0.00009	-0.00001	0.00058
	A1	0.00009	0.00010	0.00010
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00105	0.00117	0.00177
	A2	-0.00010	0.00003	0.00078
	A2	0.00009	0.00010	0.00010
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00090	0.00105	0.00181
	B0	-0.00010	0.00011	0.00131
	B0	0.00002	0.00002	0.00021
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00096	0.00118	0.00221

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A1 * A2 * B0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !A2 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * Y)	0.00016	0.00016	0.00017
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A2 * B0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A2 * !B0 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A1 * B0 * !Y)	-0.00013	-0.00012	-0.00009
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00034	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

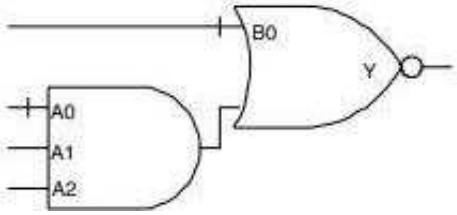
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00035	-0.00034	-0.00034

AOI31X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1P4H7L	0.00079	0.00082	0.00090	0.00099	0.03437

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1P4H7L	0.00000	0.98417	2.84274

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7L	A0->Y (FR)	0.03208	0.18433	0.63645
	A1->Y (FR)	0.02953	0.18035	0.63299
	A2->Y (FR)	0.02647	0.17556	0.62812
	B0->Y (FR)	0.02797	0.18252	0.64633

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7L	A0->Y (RF)	0.02463	0.13166	0.46324
	A1->Y (RF)	0.02370	0.13757	0.50547
	A2->Y (RF)	0.02154	0.13482	0.50772
	B0->Y (RF)	-0.00736	0.06634	0.30525

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	A0	0.00144	0.00154	0.00227
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00014	0.00015	0.00015
	A0	-0.00010	0.00001	0.00073
	A1	0.00128	0.00139	0.00213
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00005	0.00007	0.00080
	A2	0.00111	0.00125	0.00212
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00005	0.00005	0.00005
	A2	-0.00005	0.00009	0.00096
	B0	0.00089	0.00113	0.00250
	B0	-0.00002	-0.00002	0.00000
	B0	0.00014	0.00015	0.00015
	B0	-0.00012	0.00015	0.00163

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	A0	-0.00011	-0.00001	0.00063
	A0	0.00011	0.00011	0.00011
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00139	0.00150	0.00215
	A1	-0.00011	-0.00001	0.00067
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00117	0.00129	0.00197
	A2	-0.00011	0.00003	0.00089
	A2	0.00011	0.00011	0.00011
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00099	0.00115	0.00202
	B0	-0.00011	0.00013	0.00148
	B0	0.00000	0.00003	0.00022
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00105	0.00129	0.00247

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A1 * A2 * B0 * !Y)	-0.00014	-0.00013	-0.00010
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A1 * A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B0 * Y)	0.00018	0.00018	0.00019
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B0 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A2 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A2 * !B0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A1 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00036	0.00036	0.00037

Passive power(pJ) for B0 falling (conditional):

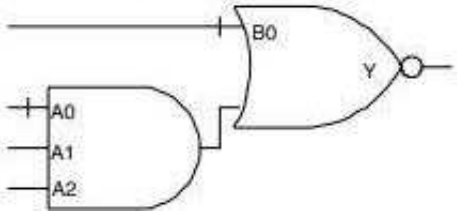
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00037	-0.00036	-0.00036

AOI31X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X2H7L	0.00091	0.00094	0.00105	0.00110	0.04043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X2H7L	0.00000	1.14382	3.30301

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7L	A0->Y (FR)	0.03056	0.18321	0.63737
	A1->Y (FR)	0.02796	0.17911	0.63409
	A2->Y (FR)	0.02494	0.17427	0.62866
	B0->Y (FR)	0.02615	0.18122	0.64777

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7L	A0->Y (RF)	0.02286	0.12740	0.45324
	A1->Y (RF)	0.02184	0.13316	0.49540
	A2->Y (RF)	0.01979	0.13057	0.49981
	B0->Y (RF)	-0.01126	0.06424	0.30076

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7L	A0	0.00165	0.00178	0.00264
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00017	0.00017	0.00018
	A0	-0.00013	0.00000	0.00087
	A1	0.00145	0.00159	0.00247
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00012	0.00012	0.00012
	A1	-0.00008	0.00006	0.00093
	A2	0.00126	0.00143	0.00247
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00005	0.00006	0.00006
	A2	-0.00008	0.00010	0.00113
	B0	0.00100	0.00128	0.00292
	B0	-0.00003	-0.00003	0.00000
	B0	0.00017	0.00017	0.00018
	B0	-0.00015	0.00017	0.00193

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7L	A0	-0.00013	-0.00002	0.00075
	A0	0.00013	0.00013	0.00013
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00160	0.00174	0.00251
	A1	-0.00013	-0.00001	0.00080
	A1	0.00013	0.00013	0.00013
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00135	0.00149	0.00230
	A2	-0.00013	0.00004	0.00105
	A2	0.00013	0.00013	0.00013
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00115	0.00133	0.00236
	B0	-0.00013	0.00015	0.00177
	B0	0.00000	0.00003	0.00026
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00118	0.00148	0.00287

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A1 * A2 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A1 * A2 * B0 * !Y)	0.00017	0.00018	0.00018
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00027	-0.00026	-0.00025
	(A1 * !A2 * !B0 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00028	-0.00027	-0.00026
	(!A1 * A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00028	-0.00027	-0.00025
	(!A1 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00028	-0.00027	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A2 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * !A2 * !B0 * Y)	0.00022	0.00023	0.00025
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00021
	(!A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * A2 * !B0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A1 * B0 * !Y)	-0.00018	-0.00015	-0.00012
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A1 * B0 * !Y)	0.00018	0.00018	0.00019
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00025	-0.00024	-0.00021
	(!A0 * A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for B0 falling (conditional):

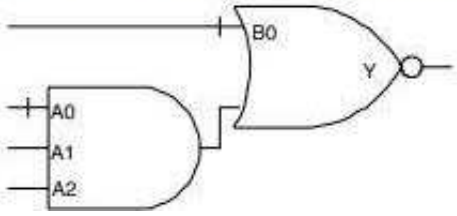
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00040	-0.00040	-0.00040

AOI31X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X3H7L	0.00159	0.00160	0.00176	0.00176	0.06261

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X3H7L	0.00000	1.85685	5.37084

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7L	A0->Y (FR)	0.03326	0.18605	0.63857
	A1->Y (FR)	0.02981	0.18065	0.63356
	A2->Y (FR)	0.02541	0.17463	0.62728
	B0->Y (FR)	0.02674	0.18215	0.64601

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7L	A0->Y (RF)	0.02535	0.13326	0.46539
	A1->Y (RF)	0.02375	0.13794	0.50534
	A2->Y (RF)	0.02023	0.13435	0.51092
	B0->Y (RF)	-0.01173	0.06414	0.30272

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7L	A0	0.00310	0.00329	0.00460
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00026	0.00027	0.00027
	A0	-0.00002	0.00017	0.00147
	A1	0.00268	0.00289	0.00422
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00017	0.00018	0.00023
	A1	-0.00003	0.00022	0.00154
	A2	0.00223	0.00250	0.00413
	A2	-0.00020	-0.00020	-0.00020
	A2	0.00006	0.00009	0.00017
	A2	-0.00007	0.00020	0.00182
	B0	0.00178	0.00223	0.00484
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00026	0.00027	0.00027
	B0	-0.00029	0.00024	0.00307

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7L	A0	-0.00021	-0.00004	0.00108
	A0	0.00020	0.00020	0.00020
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00287	0.00306	0.00419
	A1	-0.00020	-0.00002	0.00121
	A1	0.00020	0.00020	0.00020
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00236	0.00259	0.00383
	A2	-0.00021	0.00006	0.00165
	A2	0.00020	0.00020	0.00020
	A2	-0.00009	-0.00009	-0.00006
	A2	0.00199	0.00228	0.00389
	B0	-0.00021	0.00026	0.00288
	B0	0.00003	0.00004	0.00010
	B0	-0.00009	-0.00008	-0.00005
	B0	0.00214	0.00262	0.00485

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A1 * A2 * B0 * !Y)	-0.00027	-0.00023	-0.00018
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !Y)	0.00054	0.00055	0.00056
	(A1 * !A2 * B0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00047	0.00047	0.00048
	(A1 * !A2 * !B0 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A1 * B0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !Y)	0.00048	0.00049	0.00049
	(!A1 * A2 * !B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00051	0.00052	0.00052
	(!A1 * !A2 * !B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A1 * A2 * B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * A2 * B0 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * !A2 * B0 * !Y)	0.00033	0.00034	0.00034
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	-0.00048	-0.00045	-0.00041
	(A1 * !A2 * !B0 * Y)	0.00034	0.00036	0.00038
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00047	-0.00044	-0.00039
	(!A1 * B0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * A2 * !B0 * Y)	0.00034	0.00035	0.00038
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00048	-0.00046	-0.00043
	(!A1 * !A2 * !B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00048	-0.00046	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A2 * B0 * !Y)	-0.00028	-0.00024	-0.00018
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00052	0.00053	0.00055
	(A0 * !A2 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00047	0.00048	0.00048
	(A0 * !A2 * !B0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A0 * A2 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00047	0.00047	0.00047
	(!A0 * A2 * !B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A2 * B0 * !Y)	0.00028	0.00029	0.00029
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * A2 * B0 * !Y)	-0.00052	-0.00052	-0.00052
	(A0 * !A2 * B0 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00048	-0.00046	-0.00044
	(A0 * !A2 * !B0 * Y)	0.00036	0.00038	0.00043
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00047	-0.00045	-0.00041
	(!A0 * A2 * B0 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00047	-0.00046	-0.00044
	(!A0 * A2 * !B0 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * !Y)	0.00034	0.00035	0.00035
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A1 * B0 * !Y)	-0.00029	-0.00024	-0.00019
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00055	0.00056	0.00058
	(!A1 * B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	0.00049	0.00049	0.00049
	(!A0 * A1 * !B0 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A1 * B0 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00055	-0.00055	-0.00054
	(!A1 * B0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00051	-0.00049	-0.00047
	(!A1 * !B0 * Y)	0.00054	0.00054	0.00054
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00049	-0.00047	-0.00042
	(!A0 * A1 * !B0 * Y)	0.00054	0.00054	0.00054
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00067	0.00068	0.00068

Passive power(pJ) for B0 falling (conditional):

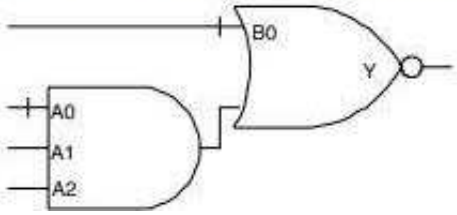
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00068	-0.00068	-0.00067

AOI31X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X4H7L	0.00186	0.00188	0.00204	0.00204	0.08017

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X4H7L	0.00000	2.28763	6.60599

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7L	A0->Y (FR)	0.02989	0.18291	0.63809
	A1->Y (FR)	0.02672	0.17780	0.63353
	A2->Y (FR)	0.02246	0.17204	0.62878
	B0->Y (FR)	0.02380	0.17965	0.64742

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7L	A0->Y (RF)	0.02238	0.12833	0.45737
	A1->Y (RF)	0.02097	0.13324	0.49724
	A2->Y (RF)	0.01769	0.13011	0.50520
	B0->Y (RF)	-0.01623	0.06217	0.29924

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7L	A0	0.00359	0.00384	0.00555
	A0	-0.00027	-0.00026	-0.00026
	A0	0.00035	0.00035	0.00035
	A0	-0.00013	0.00012	0.00183
	A1	0.00309	0.00337	0.00512
	A1	-0.00027	-0.00026	-0.00026
	A1	0.00014	0.00023	0.00027
	A1	-0.00014	0.00018	0.00192
	A2	0.00255	0.00291	0.00505
	A2	-0.00027	-0.00026	-0.00026
	A2	0.00008	0.00012	0.00018
	A2	-0.00018	0.00018	0.00231
	B0	0.00204	0.00262	0.00598
	B0	-0.00006	-0.00005	-0.00002
	B0	0.00035	0.00035	0.00035
	B0	-0.00036	0.00031	0.00396

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7L	A0	-0.00026	-0.00005	0.00143
	A0	0.00026	0.00026	0.00027
	A0	-0.00035	-0.00035	-0.00035
	A0	0.00340	0.00365	0.00514
	A1	-0.00026	-0.00002	0.00158
	A1	0.00026	0.00026	0.00027
	A1	-0.00024	-0.00023	-0.00014
	A1	0.00275	0.00310	0.00473
	A2	-0.00026	0.00008	0.00213
	A2	0.00026	0.00026	0.00027
	A2	-0.00012	-0.00011	-0.00008
	A2	0.00235	0.00271	0.00480
	B0	-0.00026	0.00032	0.00368
	B0	0.00003	0.00006	0.00007
	B0	-0.00012	-0.00011	-0.00001
	B0	0.00253	0.00308	0.00594

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A1 * A2 * B0 * !Y)	-0.00035	-0.00030	-0.00024
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00061	0.00062	0.00064
	(A1 * !A2 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * Y)	0.00058	0.00058	0.00058
	(!A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B0 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00059	0.00059	0.00059
	(!A1 * !A2 * !B0 * Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00055	0.00055	0.00056

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A1 * A2 * B0 * !Y)	0.00035	0.00036	0.00036
	(A1 * A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * A2 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * !Y)	0.00042	0.00042	0.00042
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	-0.00054	-0.00051	-0.00046
	(A1 * !A2 * !B0 * Y)	0.00043	0.00044	0.00047
	(A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00054	-0.00050	-0.00045
	(!A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00055	-0.00053	-0.00051
	(!A1 * A2 * !B0 * Y)	0.00043	0.00044	0.00047
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00055	-0.00052	-0.00049
	(!A1 * !A2 * !B0 * Y)	0.00042	0.00043	0.00043
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00055	-0.00052	-0.00050

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A2 * B0 * !Y)	-0.00035	-0.00031	-0.00024
	(A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00059	0.00060	0.00062
	(A0 * !A2 * B0 * !Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00053	0.00054	0.00054
	(A0 * !A2 * !B0 * Y)	-0.00043	-0.00042	-0.00042
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00057	0.00057	0.00058
	(!A0 * A2 * B0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00053	0.00053	0.00054
	(!A0 * A2 * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A2 * B0 * !Y)	0.00036	0.00036	0.00036
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00059	-0.00058	-0.00058
	(A0 * !A2 * B0 * !Y)	0.00043	0.00043	0.00043
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00054	-0.00052	-0.00050
	(A0 * !A2 * !B0 * Y)	0.00044	0.00047	0.00050
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00053	-0.00050	-0.00045
	(!A0 * A2 * B0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00054	-0.00052	-0.00049
	(!A0 * A2 * !B0 * Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A1 * B0 * !Y)	-0.00036	-0.00031	-0.00024
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00062	0.00063	0.00065
	(!A1 * B0 * !Y)	-0.00044	-0.00044	-0.00044
	(!A1 * B0 * !Y)	-0.00001	-0.00000	0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00057	0.00057	0.00057
	(!A1 * !B0 * Y)	-0.00063	-0.00063	-0.00062
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * !Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * !Y)	0.00055	0.00055	0.00055
	(!A0 * A1 * !B0 * Y)	-0.00063	-0.00063	-0.00062
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A1 * B0 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A1 * B0 * !Y)	0.00044	0.00044	0.00044
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00057	-0.00056	-0.00053
	(!A1 * !B0 * Y)	0.00063	0.00064	0.00064
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00055	-0.00052	-0.00046
	(!A0 * A1 * !B0 * Y)	0.00064	0.00064	0.00064
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00076	0.00077	0.00077

Passive power(pJ) for B0 falling (conditional):

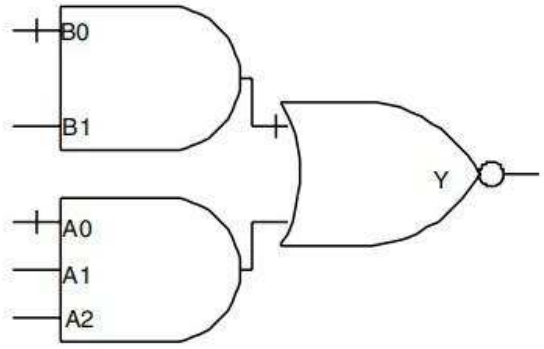
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7L	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00077	-0.00076	-0.00075

AOI32X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P5H7L	0.00062	0.00063	0.00070	0.00067	0.00072	0.02225

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P5H7L	0.00000	0.76251	2.18828

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7L	A0->Y (FR)	0.04499	0.19578	0.63589
	A1->Y (FR)	0.04238	0.19195	0.63202
	A2->Y (FR)	0.04014	0.18861	0.62987
	B0->Y (FR)	0.03670	0.18881	0.64009
	B1->Y (FR)	0.03401	0.18504	0.63684

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7L	A0->Y (RF)	0.03367	0.14290	0.47022
	A1->Y (RF)	0.03373	0.14955	0.51208
	A2->Y (RF)	0.03114	0.14745	0.51670
	B0->Y (RF)	0.01868	0.10417	0.39706
	B1->Y (RF)	0.01790	0.10443	0.41285

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	A0	0.00132	0.00139	0.00184
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00012	0.00013	0.00013
	A0	-0.00007	0.00001	0.00050
	A1	0.00123	0.00129	0.00173
	A1	-0.00010	-0.00010	-0.00008
	A1	0.00009	0.00010	0.00010
	A1	-0.00000	0.00008	0.00056
	A2	0.00112	0.00121	0.00171
	A2	-0.00010	-0.00010	-0.00009
	A2	0.00004	0.00006	0.00012
	A2	-0.00001	0.00009	0.00065
	B0	0.00091	0.00104	0.00173
	B0	-0.00003	-0.00003	0.00000
	B0	0.00012	0.00013	0.00013
	B0	-0.00013	0.00003	0.00084
	B1	0.00068	0.00083	0.00167
	B1	-0.00003	-0.00003	0.00000
	B1	0.00009	0.00009	0.00009
	B1	-0.00010	0.00007	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	A0	-0.00007	0.00000	0.00043
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00128	0.00137	0.00179
	A1	-0.00007	0.00000	0.00045
	A1	0.00010	0.00010	0.00010
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00110	0.00119	0.00163
	A2	-0.00007	0.00003	0.00060
	A2	0.00010	0.00010	0.00010
	A2	-0.00003	-0.00003	0.00000
	A2	0.00101	0.00112	0.00168
	B0	-0.00014	0.00005	0.00074
	B0	0.00000	0.00003	0.00015
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00101	0.00110	0.00170
	B1	-0.00003	0.00011	0.00092
	B1	0.00000	0.00003	0.00011
	B1	-0.00003	-0.00003	-0.00000
	B1	0.00088	0.00100	0.00171

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B1 * Y)	0.00022	0.00023	0.00023
	(A1 * !A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B1 * Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * A2 * !B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00010	-0.00009	-0.00006
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * !Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B1 * Y)	0.00013	0.00014	0.00015
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * B1 * Y)	0.00013	0.00014	0.00015
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00020	0.00021	0.00022
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00019	-0.00017	-0.00016
	(!A0 * A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	0.00018	0.00019	0.00019
	(!A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A2 * !B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

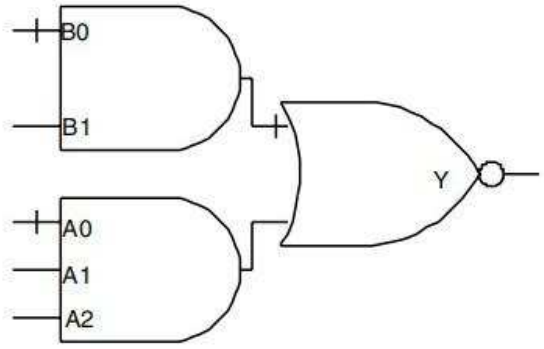
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A2 * !B0 * Y)	0.00021	0.00021	0.00022
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P7H7L	0.00068	0.00068	0.00077	0.00072	0.00079	0.02520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P7H7L	0.00000	0.81498	2.33308

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7L	A0->Y (FR)	0.04345	0.19492	0.63807
	A1->Y (FR)	0.04079	0.19105	0.63452
	A2->Y (FR)	0.03847	0.18761	0.63130
	B0->Y (FR)	0.03481	0.18755	0.64177
	B1->Y (FR)	0.03226	0.18387	0.63811

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7L	A0->Y (RF)	0.03186	0.14039	0.46691
	A1->Y (RF)	0.03092	0.14680	0.50933
	A2->Y (RF)	0.03025	0.14474	0.51341
	B0->Y (RF)	0.01750	0.10226	0.39539
	B1->Y (RF)	0.01676	0.10248	0.41014

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	A0	0.00148	0.00155	0.00204
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00014	0.00014	0.00014
	A0	-0.00005	0.00003	0.00056
	A1	0.00136	0.00144	0.00192
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00011	0.00011	0.00011
	A1	0.00001	0.00009	0.00063
	A2	0.00125	0.00134	0.00190
	A2	-0.00011	-0.00011	-0.00010
	A2	0.00007	0.00007	0.00013
	A2	-0.00001	0.00010	0.00073
	B0	0.00099	0.00114	0.00190
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00014	0.00014	0.00014
	B0	-0.00014	0.00003	0.00093
	B1	0.00073	0.00091	0.00185
	B1	-0.00003	-0.00003	0.00000
	B1	0.00011	0.00011	0.00011
	B1	-0.00011	0.00007	0.00107

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	A0	-0.00008	-0.00000	0.00047
	A0	0.00011	0.00011	0.00011
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00142	0.00150	0.00197
	A1	-0.00008	0.00000	0.00049
	A1	0.00011	0.00011	0.00011
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00122	0.00132	0.00180
	A2	-0.00008	0.00003	0.00066
	A2	0.00011	0.00011	0.00011
	A2	-0.00004	-0.00003	-0.00003
	A2	0.00110	0.00123	0.00185
	B0	-0.00005	0.00007	0.00083
	B0	0.00003	0.00003	0.00006
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00112	0.00122	0.00188
	B1	-0.00003	0.00012	0.00103
	B1	0.00003	0.00003	0.00004
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00097	0.00111	0.00190

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * !B1 * Y)	-0.00014	-0.00013	-0.00013
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00013	-0.00013
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00023	0.00024	0.00024
	(!A1 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !A2 * !B1 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * B1 * !Y)	0.00013	0.00014	0.00014
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00020
	(A1 * !A2 * !B1 * Y)	0.00014	0.00014	0.00015
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(A1 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00015
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * !Y)	0.00019	0.00020	0.00021
	(A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B1 * Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A2 * !B1 * Y)	0.00018	0.00019	0.00020
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * A2 * !B1 * Y)	0.00018	0.00019	0.00020
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00028	0.00029	0.00029
	(!A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

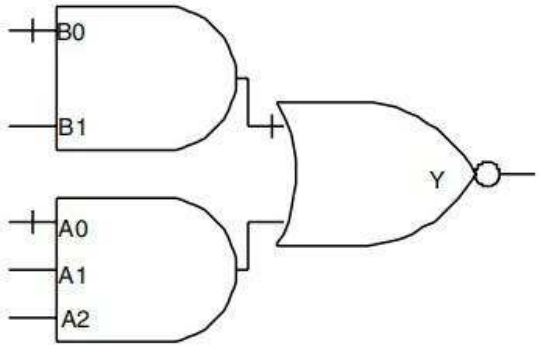
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004

AOI32X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1H7L	0.00077	0.00079	0.00087	0.00077	0.00091	0.02988

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1H7L	0.00000	0.90214	2.57554

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7L	A0->Y (FR)	0.04057	0.19263	0.63906
	A1->Y (FR)	0.03775	0.18857	0.63498
	A2->Y (FR)	0.03542	0.18513	0.63262
	B0->Y (FR)	0.03240	0.18585	0.64293
	B1->Y (FR)	0.03044	0.18258	0.63971

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7L	A0->Y (RF)	0.02974	0.13889	0.46904
	A1->Y (RF)	0.02858	0.14500	0.51081
	A2->Y (RF)	0.02691	0.14294	0.51475
	B0->Y (RF)	0.01621	0.10141	0.39840
	B1->Y (RF)	0.01576	0.10190	0.41334

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7L	A0	0.00165	0.00175	0.00231
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00017	0.00017	0.00017
	A0	-0.00007	0.00002	0.00065
	A1	0.00152	0.00160	0.00217
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00013	0.00013	0.00013
	A1	-0.00003	0.00008	0.00071
	A2	0.00138	0.00149	0.00215
	A2	-0.00014	-0.00013	-0.00013
	A2	0.00008	0.00009	0.00015
	A2	-0.00004	0.00009	0.00083
	B0	0.00113	0.00130	0.00218
	B0	-0.00004	-0.00004	0.00000
	B0	0.00017	0.00017	0.00017
	B0	-0.00016	0.00003	0.00107
	B1	0.00086	0.00105	0.00214
	B1	-0.00004	-0.00004	0.00000
	B1	0.00012	0.00013	0.00013
	B1	-0.00013	0.00008	0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7L	A0	-0.00009	-0.00001	0.00054
	A0	0.00014	0.00014	0.00014
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00160	0.00169	0.00223
	A1	-0.00009	0.00000	0.00057
	A1	0.00014	0.00014	0.00014
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00138	0.00149	0.00206
	A2	-0.00009	0.00003	0.00076
	A2	0.00014	0.00014	0.00014
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00126	0.00139	0.00211
	B0	-0.00007	0.00007	0.00096
	B0	0.00000	0.00005	0.00022
	B0	-0.00009	-0.00008	-0.00008
	B0	0.00127	0.00138	0.00215
	B1	-0.00018	0.00011	0.00117
	B1	0.00000	0.00004	0.00022
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00107	0.00125	0.00217

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00013	-0.00011	-0.00008
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00025	0.00026	0.00027
	(A1 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00016	0.00017	0.00017
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(A1 * !A2 * !B0 * B1 * Y)	0.00016	0.00017	0.00017
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * A2 * !B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * !Y)	0.00021	0.00022	0.00023
	(A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	0.00007	0.00006	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00013	0.00013	0.00014
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * !B1 * Y)	0.00016	0.00017	0.00018
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00017	0.00018
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * !B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00026
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00030	0.00030	0.00031
	(!A2 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A2 * !B1 * Y)	0.00019	0.00020	0.00021
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00019	0.00020	0.00021
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00033	0.00033	0.00034
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

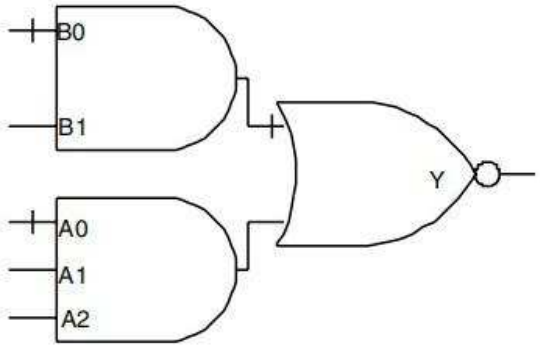
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00002	0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1P4H7L	0.00082	0.00085	0.00094	0.00082	0.00098	0.03405

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1P4H7L	0.00000	0.99844	2.84652

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7L	A0->Y (FR)	0.03862	0.19109	0.63937
	A1->Y (FR)	0.03578	0.18702	0.63578
	A2->Y (FR)	0.03326	0.18345	0.63315
	B0->Y (FR)	0.03084	0.18491	0.64377
	B1->Y (FR)	0.02874	0.18155	0.64237

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7L	A0->Y (RF)	0.02778	0.13587	0.46472
	A1->Y (RF)	0.02660	0.14188	0.50707
	A2->Y (RF)	0.02574	0.13962	0.51094
	B0->Y (RF)	0.01511	0.09943	0.39395
	B1->Y (RF)	0.01387	0.09986	0.41084

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	A0	0.00181	0.00191	0.00256
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00019	0.00019	0.00020
	A0	-0.00010	0.00001	0.00073
	A1	0.00165	0.00175	0.00240
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00015	0.00015	0.00015
	A1	-0.00006	0.00006	0.00079
	A2	0.00149	0.00161	0.00238
	A2	-0.00016	-0.00016	-0.00014
	A2	0.00006	0.00010	0.00010
	A2	-0.00007	0.00008	0.00093
	B0	0.00125	0.00144	0.00244
	B0	-0.00005	-0.00005	0.00000
	B0	0.00019	0.00019	0.00020
	B0	-0.00017	0.00006	0.00124
	B1	0.00093	0.00115	0.00240
	B1	-0.00005	-0.00005	0.00000
	B1	0.00014	0.00015	0.00015
	B1	-0.00015	0.00010	0.00142

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	A0	-0.00011	-0.00001	0.00061
	A0	0.00016	0.00016	0.00016
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00176	0.00187	0.00248
	A1	-0.00010	-0.00000	0.00065
	A1	0.00016	0.00016	0.00016
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00152	0.00165	0.00230
	A2	-0.00011	0.00004	0.00087
	A2	0.00016	0.00016	0.00016
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00136	0.00153	0.00235
	B0	-0.00024	0.00006	0.00109
	B0	0.00000	0.00005	0.00025
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00136	0.00150	0.00238
	B1	-0.00008	0.00012	0.00133
	B1	0.00000	0.00005	0.00024
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00119	0.00137	0.00242

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00015	-0.00013	-0.00009
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00026	0.00027	0.00028
	(A1 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00018	0.00019	0.00019
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * B1 * Y)	0.00018	0.00019	0.00019
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00014	-0.00012	-0.00010
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00015	0.00015	0.00015
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A2 * !B1 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00019	0.00021
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00026	0.00027	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00031	0.00031	0.00031
	(!A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00031	-0.00030	-0.00029
	(!A2 * !B1 * Y)	0.00021	0.00022	0.00023
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00021	0.00022	0.00023
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00034	0.00034	0.00034
	(!A2 * !B0 * Y)	-0.00031	-0.00030	-0.00030
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

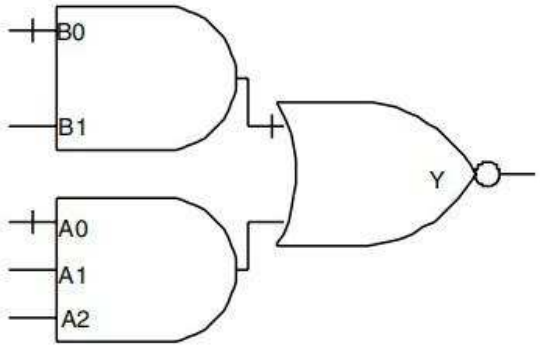
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00034	-0.00033	-0.00032
	(!A2 * !B0 * Y)	0.00030	0.00031	0.00031
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00030	0.00031	0.00031
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00030	0.00031	0.00031
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X2H7L	0.00092	0.00094	0.00101	0.00103	0.00106	0.03994

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X2H7L	0.00000	1.16347	3.30769

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7L	A0->Y (FR)	0.03784	0.19050	0.63929
	A1->Y (FR)	0.03507	0.18643	0.63575
	A2->Y (FR)	0.03200	0.18231	0.63250
	B0->Y (FR)	0.03158	0.18586	0.64656
	B1->Y (FR)	0.02829	0.18143	0.64246

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7L	A0->Y (RF)	0.02755	0.13223	0.45538
	A1->Y (RF)	0.02646	0.13818	0.49685
	A2->Y (RF)	0.02423	0.13549	0.50089
	B0->Y (RF)	0.01428	0.09758	0.38900
	B1->Y (RF)	0.01165	0.09735	0.40420

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7L	A0	0.00212	0.00225	0.00303
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00023	0.00023	0.00024
	A0	-0.00008	0.00005	0.00091
	A1	0.00194	0.00206	0.00285
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00015	0.00018	0.00018
	A1	-0.00003	0.00011	0.00097
	A2	0.00175	0.00189	0.00281
	A2	-0.00019	-0.00019	-0.00019
	A2	0.00007	0.00012	0.00015
	A2	-0.00003	0.00013	0.00115
	B0	0.00153	0.00177	0.00293
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00023	0.00023	0.00024
	B0	-0.00013	0.00014	0.00151
	B1	0.00114	0.00140	0.00287
	B1	-0.00006	-0.00006	0.00000
	B1	0.00017	0.00017	0.00018
	B1	-0.00009	0.00020	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7L	A0	-0.00012	-0.00001	0.00072
	A0	0.00019	0.00019	0.00019
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00203	0.00216	0.00288
	A1	-0.00012	-0.00000	0.00077
	A1	0.00019	0.00019	0.00020
	A1	-0.00012	-0.00012	-0.00009
	A1	0.00175	0.00191	0.00268
	A2	-0.00012	0.00005	0.00103
	A2	0.00019	0.00019	0.00020
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00154	0.00175	0.00273
	B0	-0.00028	0.00007	0.00126
	B0	0.00006	0.00006	0.00029
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00161	0.00177	0.00279
	B1	-0.00010	0.00014	0.00155
	B1	0.00005	0.00006	0.00017
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00136	0.00156	0.00280

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00017	-0.00015	-0.00011
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00029	0.00030	0.00030
	(A1 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00018	0.00018	0.00018
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B1 * Y)	0.00021	0.00022	0.00022
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00022	0.00022
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00027	-0.00026	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00017	-0.00015	-0.00011
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * !Y)	0.00025	0.00026	0.00027
	(A0 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00018	0.00018	0.00018
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * !B1 * Y)	0.00021	0.00022	0.00024
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A2 * !B0 * B1 * Y)	0.00021	0.00022	0.00023
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00027	0.00027	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * !B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00037	0.00038	0.00038
	(!A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00039	-0.00038	-0.00038
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00037	-0.00037	-0.00036
	(!A2 * !B1 * Y)	0.00029	0.00030	0.00031
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00029	0.00030	0.00031
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00029	0.00030	0.00031
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00036	0.00036	0.00037
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00035	0.00035	0.00035
	(!A2 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

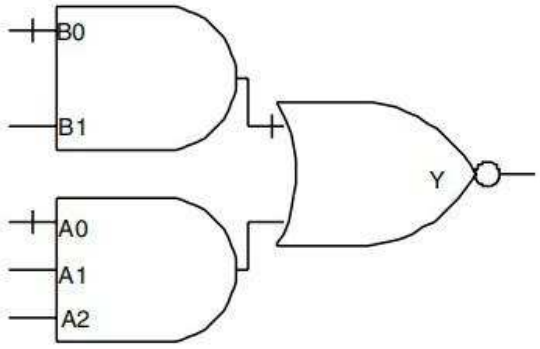
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00035	-0.00034	-0.00033
	(!A2 * !B0 * Y)	0.00034	0.00035	0.00035
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00034	0.00034	0.00035
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI32X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X3H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X3H7L	0.00162	0.00161	0.00176	0.00167	0.00170	0.06182

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X3H7L	0.00000	1.88122	5.37773

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7L	A0->Y (FR)	0.04158	0.19427	0.64093
	A1->Y (FR)	0.03798	0.18907	0.63558
	A2->Y (FR)	0.03367	0.18345	0.63153
	B0->Y (FR)	0.03369	0.18795	0.64559
	B1->Y (FR)	0.02892	0.18197	0.64149

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7L	A0->Y (RF)	0.02891	0.13797	0.46636
	A1->Y (RF)	0.02731	0.14310	0.50744
	A2->Y (RF)	0.02385	0.13991	0.51357
	B0->Y (RF)	0.01352	0.09954	0.39421
	B1->Y (RF)	0.01217	0.09889	0.41127

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7L	A0	0.00393	0.00412	0.00528
	A0	-0.00028	-0.00028	-0.00023
	A0	0.00035	0.00036	0.00036
	A0	-0.00003	0.00017	0.00147
	A1	0.00354	0.00372	0.00490
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00026	0.00027	0.00027
	A1	-0.00003	0.00023	0.00155
	A2	0.00310	0.00333	0.00473
	A2	-0.00029	-0.00029	0.00000
	A2	0.00014	0.00018	0.00025
	A2	-0.00005	0.00022	0.00181
	B0	0.00285	0.00320	0.00499
	B0	-0.00009	-0.00009	-0.00003
	B0	0.00035	0.00036	0.00036
	B0	-0.00024	0.00017	0.00235
	B1	0.00244	0.00278	0.00478
	B1	-0.00009	-0.00009	0.00000
	B1	0.00026	0.00027	0.00027
	B1	-0.00023	0.00023	0.00274

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7L	A0	-0.00020	-0.00004	0.00105
	A0	0.00029	0.00029	0.00029
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00363	0.00383	0.00488
	A1	-0.00019	-0.00001	0.00117
	A1	0.00029	0.00029	0.00029
	A1	-0.00020	-0.00019	-0.00014
	A1	0.00312	0.00335	0.00452
	A2	-0.00020	0.00008	0.00163
	A2	0.00000	0.00029	0.00029
	A2	-0.00009	-0.00009	-0.00007
	A2	0.00274	0.00303	0.00456
	B0	-0.00015	0.00014	0.00202
	B0	0.00008	0.00009	0.00010
	B0	-0.00018	-0.00017	-0.00003
	B0	0.00294	0.00319	0.00479
	B1	-0.00013	0.00025	0.00254
	B1	0.00000	0.00009	0.00010
	B1	-0.00009	-0.00008	0.00032
	B1	0.00248	0.00280	0.00476

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00027	-0.00023	-0.00018
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00054	0.00055	0.00057
	(A1 * !A2 * B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00047	0.00047	0.00048
	(A1 * !A2 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	0.00050	0.00051	0.00051
	(A1 * !A2 * !B0 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00050	0.00051	0.00051
	(!A1 * B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * A2 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00051	0.00051	0.00052
	(!A1 * A2 * !B0 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00051	0.00051	0.00052
	(!A1 * !A2 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00048	0.00049	0.00049
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * !A2 * B0 * B1 * !Y)	0.00034	0.00034	0.00035
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00048	-0.00045	-0.00041
	(A1 * !A2 * !B1 * Y)	0.00035	0.00037	0.00039
	(A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00047	-0.00044	-0.00039
	(A1 * !A2 * !B0 * B1 * Y)	0.00035	0.00037	0.00039
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00047	-0.00044	-0.00039
	(!A1 * B0 * B1 * !Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * A2 * !B1 * Y)	0.00035	0.00036	0.00037
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00048	-0.00046	-0.00041
	(!A1 * A2 * !B0 * B1 * Y)	0.00035	0.00036	0.00037
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00048	-0.00046	-0.00041
	(!A1 * !A2 * !B1 * Y)	0.00035	0.00035	0.00035
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00048	-0.00046	-0.00043
	(!A1 * !A2 * !B0 * B1 * Y)	0.00035	0.00035	0.00035
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00048	-0.00046	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00027	-0.00023	-0.00018
	(A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00053	0.00054	0.00056
	(A0 * !A2 * B0 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00047	0.00048	0.00049
	(A0 * !A2 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00050	0.00051	0.00051
	(A0 * !A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00051	0.00051	0.00051
	(!A0 * A2 * B0 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A2 * !B1 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B0 * B1 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B1 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00029	0.00029	0.00029
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00052	-0.00052	-0.00052
	(A0 * !A2 * B0 * B1 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00048	-0.00047	-0.00045
	(A0 * !A2 * !B1 * Y)	0.00035	0.00038	0.00042
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	-0.00048	-0.00045	-0.00042
	(A0 * !A2 * !B0 * B1 * Y)	0.00035	0.00038	0.00042
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00048	-0.00045	-0.00042
	(!A0 * A2 * B0 * B1 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00047	-0.00046	-0.00044
	(!A0 * A2 * !B1 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00034	0.00035	0.00035
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B1 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00028	-0.00024	-0.00018
	(A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00055	0.00056	0.00058
	(!A1 * B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * B1 * !Y)	0.00050	0.00051	0.00051
	(!A1 * !B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A0 * A1 * !B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B1 * Y)	0.00014	0.00014	0.00015
	(!A0 * A1 * !B0 * B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * B0 * B1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00055	-0.00054	-0.00054
	(!A1 * B0 * B1 * !Y)	0.00035	0.00035	0.00036
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00051	-0.00049	-0.00047
	(!A1 * !B1 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * !Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00049	-0.00046	-0.00041
	(!A0 * A1 * !B1 * Y)	0.00054	0.00054	0.00054
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A1 * !B0 * B1 * Y)	0.00053	0.00054	0.00054
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * Y)	-0.00014	-0.00013	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00068	0.00068	0.00069
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00065	0.00066	0.00066
	(!A2 * !B1 * Y)	-0.00039	-0.00039	-0.00039
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * A2 * !B1 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A0 * A1 * A2 * !B1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00069	-0.00068	-0.00068
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00066	-0.00064	-0.00062
	(!A2 * !B1 * Y)	0.00041	0.00043	0.00047
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * A2 * !B1 * Y)	0.00041	0.00043	0.00047
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00044	-0.00042	-0.00039
	(!A0 * A1 * A2 * !B1 * Y)	0.00041	0.00043	0.00047
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00044	-0.00042	-0.00039

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00066	0.00067	0.00067
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00064	0.00064	0.00064
	(!A2 * !B0 * Y)	-0.00056	-0.00056	-0.00055
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * !B0 * Y)	-0.00056	-0.00056	-0.00055
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00010
	(!A0 * A1 * A2 * !B0 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

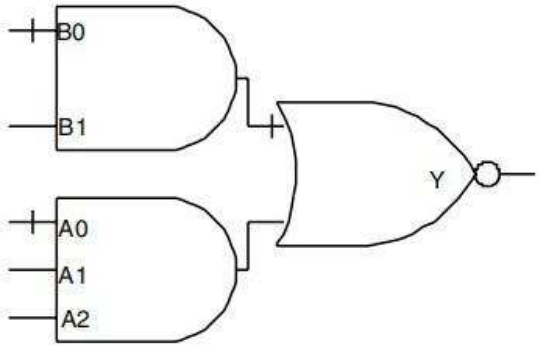
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00067	-0.00066	-0.00065
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00064	-0.00062	-0.00060
	(!A2 * !B0 * Y)	0.00056	0.00056	0.00056
	(!A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B0 * Y)	-0.00010	-0.00009	-0.00009
	(!A1 * A2 * !B0 * Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * Y)	0.00056	0.00056	0.00056
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

AOI32X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X4H7L	0.00188	0.00188	0.00207	0.00195	0.00199	0.07938

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X4H7L	0.00000	2.32693	6.61533

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7L	A0->Y (FR)	0.03766	0.19078	0.64034
	A1->Y (FR)	0.03429	0.18576	0.63580
	A2->Y (FR)	0.03020	0.18046	0.63222
	B0->Y (FR)	0.03053	0.18548	0.64736
	B1->Y (FR)	0.02609	0.17972	0.64271

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7L	A0->Y (RF)	0.02574	0.13306	0.45941
	A1->Y (RF)	0.02426	0.13831	0.50121
	A2->Y (RF)	0.02113	0.13564	0.50870
	B0->Y (RF)	0.00785	0.09654	0.39001
	B1->Y (RF)	0.00678	0.09633	0.40842

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7L	A0	0.00458	0.00482	0.00636
	A0	-0.00040	-0.00038	-0.00036
	A0	0.00046	0.00047	0.00047
	A0	-0.00017	0.00009	0.00181
	A1	0.00411	0.00435	0.00590
	A1	-0.00038	-0.00038	-0.00033
	A1	0.00034	0.00036	0.00041
	A1	-0.00013	0.00016	0.00190
	A2	0.00360	0.00389	0.00575
	A2	-0.00038	-0.00038	-0.00037
	A2	0.00000	0.00023	0.00029
	A2	-0.00020	0.00017	0.00226
	B0	0.00335	0.00378	0.00610
	B0	-0.00012	-0.00011	-0.00007
	B0	0.00046	0.00047	0.00047
	B0	-0.00032	0.00022	0.00302
	B1	0.00285	0.00328	0.00587
	B1	-0.00012	-0.00012	-0.00007
	B1	0.00032	0.00035	0.00035
	B1	-0.00030	0.00030	0.00352

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7L	A0	-0.00026	-0.00004	0.00139
	A0	0.00037	0.00038	0.00043
	A0	-0.00035	-0.00035	-0.00034
	A0	0.00439	0.00460	0.00600
	A1	-0.00025	-0.00001	0.00153
	A1	0.00038	0.00039	0.00039
	A1	-0.00024	-0.00023	-0.00016
	A1	0.00370	0.00404	0.00557
	A2	-0.00026	0.00009	0.00210
	A2	0.00038	0.00039	0.00039
	A2	-0.00024	-0.00023	0.00000
	A2	0.00325	0.00364	0.00562
	B0	-0.00021	0.00016	0.00261
	B0	0.00011	0.00012	0.00013
	B0	-0.00024	-0.00023	-0.00016
	B0	0.00347	0.00379	0.00587
	B1	-0.00019	0.00030	0.00325
	B1	0.00011	0.00012	0.00015
	B1	-0.00012	-0.00011	-0.00009
	B1	0.00291	0.00333	0.00585

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7L	**(A1 * A2 * B0 * B1 * !Y)**	-0.00035	-0.00030	-0.00023
	(A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00061	0.00062	0.00065
	(A1 * !A2 * B0 * B1 * !Y)	-0.00043	-0.00043	-0.00042
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B1 * Y)	-0.00043	-0.00042	-0.00042
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * Y)	0.00057	0.00058	0.00058
	(A1 * !A2 * !B0 * B1 * Y)	-0.00043	-0.00043	-0.00042
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00057	0.00058	0.00058
	(!A1 * B0 * B1 * !Y)	-0.00043	-0.00043	-0.00042
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B1 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00058	0.00059	0.00059
	(!A1 * A2 * !B0 * B1 * Y)	-0.00043	-0.00042	-0.00042
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00058	0.00059	0.00059
	(!A1 * !A2 * !B1 * Y)	-0.00043	-0.00043	-0.00042
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00055	0.00055	0.00056

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7L	**(A1 * A2 * B0 * B1 * !Y)**	0.00036	0.00036	0.00037
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * !A2 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00054	-0.00051	-0.00046
	(A1 * !A2 * !B1 * Y)	0.00044	0.00045	0.00048
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00054	-0.00050	-0.00044
	(A1 * !A2 * !B0 * B1 * Y)	0.00044	0.00045	0.00048
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00054	-0.00050	-0.00045
	(!A1 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00055	-0.00053	-0.00051
	(!A1 * A2 * !B1 * Y)	0.00044	0.00045	0.00048
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00054	-0.00052	-0.00049
	(!A1 * A2 * !B0 * B1 * Y)	0.00044	0.00045	0.00048
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00054	-0.00052	-0.00049
	(!A1 * !A2 * !B1 * Y)	0.00043	0.00044	0.00044
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00054	-0.00052	-0.00049
	(!A1 * !A2 * !B0 * B1 * Y)	0.00043	0.00044	0.00044
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00055	-0.00052	-0.00049

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7L	**(A0 * A2 * B0 * B1 * !Y)**	-0.00034	-0.00030	-0.00023
	(A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00060	0.00061	0.00063
	(A0 * !A2 * B0 * B1 * !Y)	-0.00042	-0.00042	-0.00042
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00055	0.00055	0.00055
	(A0 * !A2 * !B1 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00058	0.00058	0.00059
	(A0 * !A2 * !B0 * B1 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00058	0.00058	0.00058
	(!A0 * A2 * B0 * B1 * !Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00053	0.00054	0.00054
	(!A0 * A2 * !B1 * Y)	-0.00045	-0.00044	-0.00044
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00045	-0.00044	-0.00044
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00043	-0.00042	-0.00042
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00000	0.00003
	(!A0 * !A2 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A2 * !B1 * Y)	-0.00045	-0.00045	-0.00044
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7L	**(A0 * A2 * B0 * B1 * !Y)**	0.00036	0.00036	0.00036
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00060	-0.00059	-0.00059
	(A0 * !A2 * B0 * B1 * !Y)	0.00042	0.00042	0.00042
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00055	-0.00053	-0.00051
	(A0 * !A2 * !B1 * Y)	0.00043	0.00046	0.00051
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00054	-0.00051	-0.00047
	(A0 * !A2 * !B0 * B1 * Y)	0.00043	0.00046	0.00050
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00054	-0.00051	-0.00046
	(!A0 * A2 * B0 * B1 * !Y)	0.00042	0.00042	0.00043
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00054	-0.00052	-0.00050
	(!A0 * A2 * !B1 * Y)	0.00045	0.00046	0.00046
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00045	0.00046	0.00046
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00042	0.00043	0.00043
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A2 * !B1 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * B0 * B1 * !Y)	-0.00036	-0.00031	-0.00024
	(A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00062	0.00064	0.00067
	(!A1 * B0 * B1 * !Y)	-0.00045	-0.00045	-0.00044
	(!A1 * B0 * B1 * !Y)	-0.00001	0.00000	0.00006
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00057	0.00057	0.00059
	(!A1 * !B1 * Y)	-0.00064	-0.00064	-0.00063
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * Y)	-0.00064	-0.00064	-0.00063
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * !B1 * Y)	-0.00064	-0.00064	-0.00063
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B0 * B1 * Y)	-0.00064	-0.00064	-0.00063
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * B0 * B1 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00062	-0.00062	-0.00062
	(!A1 * B0 * B1 * !Y)	0.00044	0.00045	0.00045
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00057	-0.00055	-0.00053
	(!A1 * !B1 * Y)	0.00064	0.00064	0.00065
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * Y)	0.00064	0.00064	0.00065
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * !Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00002	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00055	-0.00051	-0.00045
	(!A0 * A1 * !B1 * Y)	0.00063	0.00064	0.00065
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * Y)	0.00063	0.00064	0.00065
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00077	0.00077	0.00078
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00073	0.00074	0.00075
	(!A2 * !B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A2 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A1 * A2 * !B1 * Y)	-0.00048	-0.00048	-0.00048
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * A2 * !B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00078	-0.00077	-0.00076
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00074	-0.00072	-0.00070
	(!A2 * !B1 * Y)	0.00050	0.00052	0.00056
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * A2 * !B1 * Y)	0.00050	0.00052	0.00056
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * A1 * A2 * !B1 * Y)	0.00050	0.00052	0.00056
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00050	-0.00048	-0.00042

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00076	0.00076	0.00077
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00073	0.00073	0.00074
	(!A2 * !B0 * Y)	-0.00067	-0.00066	-0.00065
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	-0.00067	-0.00066	-0.00065
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * Y)	-0.00067	-0.00066	-0.00065
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7L	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00073	-0.00071	-0.00068
	(!A2 * !B0 * Y)	0.00066	0.00067	0.00067
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B0 * Y)	0.00066	0.00067	0.00067
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

AOI33X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P5H7L	0.00064	0.00065	0.00075	0.00071	0.00071	0.00076	0.02193

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P5H7L	0.00000	0.66276	2.19051

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7L	A0->Y (FR)	0.05205	0.20258	0.63761
	A1->Y (FR)	0.04943	0.19902	0.63404
	A2->Y (FR)	0.04752	0.19601	0.63106
	B0->Y (FR)	0.04466	0.19610	0.64182
	B1->Y (FR)	0.04129	0.19163	0.63705
	B2->Y (FR)	0.03883	0.18819	0.63441

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7L	A0->Y (RF)	0.03938	0.14787	0.47023
	A1->Y (RF)	0.03873	0.15482	0.51285
	A2->Y (RF)	0.03732	0.15312	0.51750
	B0->Y (RF)	0.03142	0.13770	0.46278
	B1->Y (RF)	0.02993	0.14346	0.50363
	B2->Y (RF)	0.02806	0.14136	0.50776

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7L	A0	0.00159	0.00166	0.00207
	A0	-0.00013	-0.00012	-0.00011
	A0	0.00015	0.00016	0.00016
	A0	-0.00009	-0.00002	0.00047
	A1	0.00150	0.00156	0.00197
	A1	-0.00013	-0.00012	-0.00012
	A1	0.00012	0.00013	0.00013
	A1	-0.00002	0.00006	0.00054
	A2	0.00141	0.00148	0.00193
	A2	-0.00013	-0.00012	-0.00012
	A2	0.00005	0.00009	0.00014
	A2	-0.00003	0.00006	0.00060
	B0	0.00115	0.00128	0.00189
	B0	-0.00005	-0.00004	-0.00000
	B0	0.00015	0.00016	0.00016
	B0	-0.00013	0.00001	0.00072
	B1	0.00106	0.00117	0.00177
	B1	-0.00005	-0.00004	0.00000
	B1	0.00012	0.00013	0.00013
	B1	-0.00008	0.00005	0.00076
	B2	0.00097	0.00108	0.00173
	B2	-0.00005	-0.00004	-0.00000
	B2	0.00009	0.00009	0.00009
	B2	-0.00007	0.00008	0.00086

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7L	A0	-0.00007	0.00000	0.00042
	A0	0.00013	0.00013	0.00013
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00158	0.00166	0.00207
	A1	-0.00006	0.00000	0.00043
	A1	0.00013	0.00013	0.00013
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00140	0.00148	0.00190
	A2	-0.00007	0.00003	0.00057
	A2	0.00013	0.00013	0.00015
	A2	-0.00003	-0.00003	0.00000
	A2	0.00131	0.00141	0.00195
	B0	0.00000	0.00009	0.00064
	B0	0.00004	0.00005	0.00021
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00132	0.00140	0.00188
	B1	0.00000	0.00010	0.00065
	B1	0.00000	0.00005	0.00005
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00116	0.00124	0.00173
	B2	0.00000	0.00012	0.00080
	B2	0.00000	0.00005	0.00005
	B2	-0.00003	-0.00003	-0.00003
	B2	0.00105	0.00115	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00024	0.00025	0.00026
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00022	0.00023	0.00023
	(A1 * !A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * B2 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B2 * Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B1 * B2 * Y)	0.00012	0.00012	0.00013
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00011	0.00012	0.00012
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B2 * Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B2 * Y)	0.00013	0.00014	0.00015
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00014	0.00014
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00014	0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00009	-0.00006
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00001	0.00002	0.00001
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00002	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * A1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00028	0.00028	0.00028
	(!A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00028	-0.00027	-0.00027
	(!A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00018
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00015	0.00016	0.00016
	(!A2 * !B0 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !B0 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00026	0.00026	0.00027
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P7H7L	0.00068	0.00068	0.00079	0.00074	0.00075	0.00082	0.02491

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P7H7L	0.00000	0.70956	2.33572

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7L	A0->Y (FR)	0.04970	0.20115	0.63980
	A1->Y (FR)	0.04694	0.19741	0.63681
	A2->Y (FR)	0.04480	0.19417	0.63365
	B0->Y (FR)	0.04177	0.19409	0.64277
	B1->Y (FR)	0.03865	0.18985	0.63918
	B2->Y (FR)	0.03609	0.18619	0.63708

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7L	A0->Y (RF)	0.03695	0.14492	0.46758
	A1->Y (RF)	0.03606	0.15158	0.51027
	A2->Y (RF)	0.03213	0.14802	0.51468
	B0->Y (RF)	0.02857	0.13416	0.45793
	B1->Y (RF)	0.02733	0.14001	0.50054
	B2->Y (RF)	0.02536	0.13777	0.50439

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7L	A0	0.00174	0.00182	0.00227
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00018	0.00018	0.00018
	A0	-0.00011	-0.00002	0.00052
	A1	0.00163	0.00170	0.00216
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00014	0.00014	0.00015
	A1	-0.00003	0.00006	0.00059
	A2	0.00152	0.00161	0.00211
	A2	-0.00014	-0.00014	-0.00013
	A2	0.00008	0.00011	0.00017
	A2	-0.00005	0.00006	0.00067
	B0	0.00126	0.00139	0.00207
	B0	-0.00005	-0.00005	0.00000
	B0	0.00018	0.00018	0.00018
	B0	-0.00014	0.00001	0.00081
	B1	0.00115	0.00127	0.00195
	B1	-0.00005	-0.00005	0.00000
	B1	0.00014	0.00014	0.00014
	B1	-0.00011	0.00006	0.00086
	B2	0.00104	0.00116	0.00189
	B2	-0.00005	-0.00005	0.00000
	B2	0.00011	0.00011	0.00011
	B2	-0.00008	0.00008	0.00097

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7L	A0	-0.00008	-0.00000	0.00046
	A0	0.00015	0.00015	0.00015
	A0	-0.00011	-0.00011	-0.00008
	A0	0.00172	0.00181	0.00226
	A1	-0.00007	0.00000	0.00048
	A1	0.00015	0.00015	0.00015
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00153	0.00162	0.00209
	A2	-0.00008	0.00003	0.00064
	A2	0.00015	0.00015	0.00015
	A2	-0.00004	-0.00003	-0.00003
	A2	0.00141	0.00154	0.00214
	B0	-0.00002	0.00008	0.00071
	B0	0.00000	0.00006	0.00022
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00142	0.00151	0.00205
	B1	-0.00001	0.00008	0.00072
	B1	0.00005	0.00005	0.00006
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00124	0.00133	0.00188
	B2	-0.00002	0.00012	0.00089
	B2	0.00005	0.00005	0.00008
	B2	-0.00004	-0.00003	-0.00003
	B2	0.00112	0.00123	0.00191

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00007
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00012
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00014
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !A2 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * !B2 * Y)	0.00014	0.00015	0.00017
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00015	0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00015	0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A2 * !B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00010	-0.00007
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00012	0.00013	0.00013
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * B2 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B2 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B2 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00029	0.00030	0.00030
	(!A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00029	-0.00029	-0.00028
	(!A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00018	0.00019	0.00020
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00015	-0.00015	-0.00013
	(!A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00018	0.00019	0.00020
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00027	0.00027	0.00027
	(!A2 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00027	-0.00026	-0.00024
	(!A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X1H7L	0.00073	0.00077	0.00088	0.00080	0.00083	0.00089	0.02959

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X1H7L	0.00000	0.78690	2.57874

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7L	A0->Y (FR)	0.04695	0.19931	0.64188
	A1->Y (FR)	0.04429	0.19563	0.63841
	A2->Y (FR)	0.04197	0.19229	0.63608
	B0->Y (FR)	0.03901	0.19221	0.64546
	B1->Y (FR)	0.03591	0.18798	0.64131
	B2->Y (FR)	0.03338	0.18441	0.63882

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7L	A0->Y (RF)	0.03484	0.14382	0.47091
	A1->Y (RF)	0.03401	0.15048	0.51290
	A2->Y (RF)	0.03225	0.14842	0.51723
	B0->Y (RF)	0.02646	0.13296	0.46191
	B1->Y (RF)	0.02525	0.13874	0.50388
	B2->Y (RF)	0.02329	0.13648	0.50776

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7L	A0	0.00198	0.00207	0.00260
	A0	-0.00017	-0.00017	-0.00015
	A0	0.00021	0.00021	0.00021
	A0	-0.00008	0.00002	0.00064
	A1	0.00186	0.00194	0.00246
	A1	-0.00017	-0.00017	-0.00015
	A1	0.00017	0.00017	0.00017
	A1	-0.00001	0.00008	0.00070
	A2	0.00172	0.00182	0.00241
	A2	-0.00018	-0.00017	-0.00016
	A2	0.00010	0.00013	0.00019
	A2	-0.00003	0.00009	0.00080
	B0	0.00142	0.00158	0.00237
	B0	-0.00006	-0.00006	0.00000
	B0	0.00021	0.00021	0.00021
	B0	-0.00014	0.00003	0.00097
	B1	0.00130	0.00143	0.00222
	B1	-0.00006	-0.00006	0.00000
	B1	0.00017	0.00017	0.00017
	B1	-0.00010	0.00007	0.00100
	B2	0.00117	0.00131	0.00217
	B2	-0.00006	-0.00006	0.00000
	B2	0.00012	0.00013	0.00013
	B2	-0.00010	0.00010	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7L	A0	-0.00009	-0.00001	0.00052
	A0	0.00017	0.00017	0.00020
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00193	0.00203	0.00254
	A1	-0.00009	-0.00000	0.00054
	A1	0.00017	0.00017	0.00019
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00173	0.00183	0.00237
	A2	-0.00009	0.00003	0.00074
	A2	0.00018	0.00018	0.00018
	A2	-0.00004	-0.00004	-0.00001
	A2	0.00159	0.00172	0.00241
	B0	-0.00003	0.00008	0.00081
	B0	0.00000	0.00007	0.00026
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00158	0.00168	0.00231
	B1	-0.00002	0.00009	0.00084
	B1	0.00006	0.00006	0.00007
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00139	0.00149	0.00214
	B2	-0.00003	0.00013	0.00104
	B2	0.00000	0.00007	0.00026
	B2	-0.00004	-0.00004	-0.00004
	B2	0.00124	0.00137	0.00217

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00012	-0.00011	-0.00008
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00026	0.00027	0.00028
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B2 * Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00016	0.00016
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B2 * Y)	0.00015	0.00016	0.00016
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B1 * B2 * Y)	0.00015	0.00016	0.00016
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00015	0.00016	0.00016
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A2 * !B2 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00019
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00019
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00025	0.00026	0.00027
	(!A1 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B2 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B2 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00013	0.00014	0.00014
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * B2 * !Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00030	0.00030	0.00030
	(!A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00030	-0.00030	-0.00028
	(!A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00020	0.00021	0.00022
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A2 * !B0 * B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00020	0.00021	0.00022
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00029	0.00029	0.00030
	(!A2 * !B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00030	-0.00028	-0.00025
	(!A2 * !B1 * Y)	0.00027	0.00028	0.00028
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00027	0.00028	0.00028
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
0	**x**	**x**	**0**	**x**	**x**	**1**
0	**x**	**x**	**1**	**0**	**x**	**1**
0	**x**	**x**	**1**	**1**	**0**	**1**
x	**x**	**x**	**1**	**1**	**1**	**0**
1	**0**	**x**	**0**	**x**	**x**	**1**
1	**0**	**x**	**1**	**0**	**x**	**1**
1	**0**	**x**	**1**	**1**	**0**	**1**
1	**1**	**0**	**0**	**x**	**x**	**1**
1	**1**	**0**	**1**	**0**	**x**	**1**
1	**1**	**0**	**1**	**1**	**0**	**1**
1	**1**	**1**	**x**	**x**	**x**	**0**

Footprint

Cell Name	Area
AOI33X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X1P4H7L	0.00080	0.00082	0.00094	0.00086	0.00091	0.00096	0.03371

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X1P4H7L	0.00000	0.87211	2.85029

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7L	A0->Y (FR)	0.04459	0.19736	0.64211
	A1->Y (FR)	0.04185	0.19357	0.63897
	A2->Y (FR)	0.03942	0.19011	0.63658
	B0->Y (FR)	0.03697	0.19068	0.64568
	B1->Y (FR)	0.03406	0.18660	0.64201
	B2->Y (FR)	0.03130	0.18275	0.63931

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7L	A0->Y (RF)	0.03020	0.13863	0.46607
	A1->Y (RF)	0.03154	0.14686	0.50802
	A2->Y (RF)	0.02750	0.14302	0.51188
	B0->Y (RF)	0.02435	0.12978	0.45807
	B1->Y (RF)	0.02325	0.13550	0.49893
	B2->Y (RF)	0.02114	0.13312	0.50278

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7L	A0	0.00216	0.00226	0.00286
	A0	-0.00021	-0.00021	-0.00018
	A0	0.00024	0.00024	0.00024
	A0	-0.00012	-0.00001	0.00070
	A1	0.00201	0.00210	0.00271
	A1	-0.00020	-0.00020	-0.00018
	A1	0.00019	0.00019	0.00020
	A1	-0.00006	0.00006	0.00077
	A2	0.00186	0.00197	0.00266
	A2	-0.00020	-0.00020	-0.00019
	A2	0.00012	0.00015	0.00022
	A2	-0.00008	0.00007	0.00089
	B0	0.00156	0.00174	0.00264
	B0	-0.00007	-0.00007	0.00000
	B0	0.00024	0.00024	0.00024
	B0	-0.00015	0.00005	0.00111
	B1	0.00141	0.00158	0.00248
	B1	-0.00007	-0.00007	0.00000
	B1	0.00019	0.00019	0.00020
	B1	-0.00011	0.00009	0.00114
	B2	0.00127	0.00144	0.00242
	B2	-0.00007	-0.00007	0.00000
	B2	0.00014	0.00015	0.00015
	B2	-0.00010	0.00011	0.00130

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7L	A0	-0.00010	-0.00001	0.00059
	A0	0.00021	0.00021	0.00023
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00213	0.00224	0.00283
	A1	-0.00010	-0.00000	0.00062
	A1	0.00021	0.00021	0.00023
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00190	0.00201	0.00263
	A2	-0.00010	0.00003	0.00084
	A2	0.00021	0.00021	0.00021
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00173	0.00190	0.00269
	B0	-0.00006	0.00007	0.00091
	B0	0.00007	0.00008	0.00029
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00171	0.00183	0.00256
	B1	-0.00006	0.00007	0.00094
	B1	0.00007	0.00007	0.00008
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00149	0.00162	0.00237
	B2	-0.00006	0.00012	0.00117
	B2	0.00000	0.00008	0.00029
	B2	-0.00005	-0.00005	-0.00003
	B2	0.00134	0.00148	0.00241

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00028	0.00028	0.00029
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00026	0.00027	0.00027
	(A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00015	0.00015	0.00015
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B2 * Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B1 * B2 * Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00026	-0.00025	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00015	-0.00012	-0.00009
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00022	0.00023	0.00024
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00021	0.00022	0.00022
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00015	0.00016	0.00016
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * !B2 * Y)	0.00018	0.00019	0.00020
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00020
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00019	0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B2 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B2 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00015	0.00015	0.00016
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B2 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00020
	(!A0 * A1 * !B2 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00032	0.00032	0.00032
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00022	0.00023	0.00023
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00032	-0.00031	-0.00030
	(!A2 * B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00021	-0.00020	-0.00019
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00029	0.00029	0.00030
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00015	0.00015	0.00015
	(!A2 * B0 * !B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B0 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A2 * B0 * !B2 * Y)	0.00022	0.00023	0.00024
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00019	-0.00018	-0.00017
	(!A2 * !B0 * B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00022	0.00023	0.00024
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * A2 * !B0 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(!A2 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00031	-0.00029	-0.00027
	(!A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X2H7L	0.00089	0.00092	0.00101	0.00096	0.00096	0.00097	0.03968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X2H7L	0.00000	1.01786	3.31237

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7L	A0->Y (FR)	0.04236	0.19555	0.64192
	A1->Y (FR)	0.03961	0.19170	0.63910
	A2->Y (FR)	0.03682	0.18791	0.63594
	B0->Y (FR)	0.03524	0.18957	0.64668
	B1->Y (FR)	0.03196	0.18506	0.64369
	B2->Y (FR)	0.02870	0.18080	0.63954

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7L	A0->Y (RF)	0.02978	0.13537	0.45621
	A1->Y (RF)	0.02885	0.14166	0.49818
	A2->Y (RF)	0.02680	0.13934	0.50259
	B0->Y (RF)	0.02242	0.12540	0.44910
	B1->Y (RF)	0.02102	0.13069	0.48884
	B2->Y (RF)	0.01863	0.12806	0.49350

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7L	A0	0.00244	0.00256	0.00329
	A0	-0.00024	-0.00024	-0.00021
	A0	0.00029	0.00029	0.00029
	A0	-0.00012	0.00001	0.00087
	A1	0.00226	0.00238	0.00311
	A1	-0.00024	-0.00024	-0.00021
	A1	0.00023	0.00024	0.00024
	A1	-0.00006	0.00007	0.00094
	A2	0.00207	0.00221	0.00305
	A2	-0.00024	-0.00024	-0.00022
	A2	0.00015	0.00017	0.00020
	A2	-0.00008	0.00009	0.00110
	B0	0.00177	0.00198	0.00305
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00029	0.00029	0.00029
	B0	-0.00017	0.00006	0.00133
	B1	0.00159	0.00178	0.00286
	B1	-0.00009	-0.00009	0.00000
	B1	0.00023	0.00023	0.00024
	B1	-0.00014	0.00011	0.00137
	B2	0.00139	0.00159	0.00277
	B2	-0.00009	-0.00009	0.00000
	B2	0.00017	0.00017	0.00020
	B2	-0.00012	0.00014	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7L	A0	-0.00012	-0.00001	0.00071
	A0	0.00025	0.00025	0.00026
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00239	0.00252	0.00323
	A1	-0.00012	-0.00000	0.00075
	A1	0.00025	0.00025	0.00026
	A1	-0.00012	-0.00012	-0.00009
	A1	0.00210	0.00227	0.00301
	A2	-0.00012	0.00005	0.00101
	A2	0.00025	0.00025	0.00026
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00196	0.00212	0.00307
	B0	-0.00023	0.00009	0.00111
	B0	0.00009	0.00010	0.00033
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00195	0.00208	0.00296
	B1	-0.00033	0.00009	0.00115
	B1	0.00009	0.00010	0.00040
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00169	0.00182	0.00273
	B2	-0.00004	0.00016	0.00144
	B2	0.00009	0.00009	0.00014
	B2	-0.00006	-0.00006	-0.00005
	B2	0.00146	0.00166	0.00277

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00016	-0.00014	-0.00011
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00030	0.00031	0.00032
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00027	0.00027	0.00028
	(A1 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00017	0.00017	0.00017
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00027	-0.00026	-0.00025
	(A1 * !A2 * !B2 * Y)	0.00020	0.00021	0.00021
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B2 * Y)	-0.00027	-0.00026	-0.00024
	(A1 * !A2 * !B1 * B2 * Y)	0.00020	0.00021	0.00021
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00027	-0.00026	-0.00024
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00021	0.00021
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	-0.00028	-0.00027	-0.00025
	(!A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00028	-0.00027	-0.00025
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00028	-0.00027	-0.00025
	(!A1 * !A2 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00028	-0.00027	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00017	-0.00015	-0.00011
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00025	0.00026	0.00027
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00024	0.00025	0.00025
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00018	0.00018	0.00018
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A2 * !B2 * Y)	0.00021	0.00023	0.00024
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A2 * !B1 * B2 * Y)	0.00021	0.00022	0.00024
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00022	0.00024
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A2 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00017	-0.00015	-0.00011
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00029	0.00030	0.00031
	(!A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B2 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00025	-0.00022
	(!A0 * A1 * !B2 * Y)	0.00030	0.00031	0.00031
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00037	0.00037	0.00038
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00036	0.00036	0.00037
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00036	0.00036	0.00037
	(!A2 * B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A2 * !B1 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	0.00025	0.00026	0.00026
	(!A2 * !B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00036	-0.00035	-0.00033
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00036	-0.00035	-0.00034
	(!A2 * B1 * !B2 * Y)	0.00025	0.00025	0.00026
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B1 * !B2 * Y)	-0.00024	-0.00022	-0.00020
	(!A2 * !B1 * B2 * Y)	0.00024	0.00025	0.00025
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * B1 * !B2 * Y)	0.00024	0.00025	0.00026
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * A2 * !B1 * B2 * Y)	0.00024	0.00025	0.00025
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00024	0.00025	0.00025
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00031	0.00032	0.00032
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00015	0.00015
	(!A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00006	-0.00005	0.00001
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00015	-0.00015	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00024	0.00025	0.00026
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B2 * Y)	0.00024	0.00025	0.00026
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(!A2 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00033	-0.00031	-0.00027
	(!A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X3H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X3H7L	0.00160	0.00158	0.00169	0.00168	0.00168	0.00175	0.06091

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X3H7L	0.00000	1.64195	5.38462

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7L	A0->Y (FR)	0.04927	0.20231	0.64409
	A1->Y (FR)	0.04542	0.19720	0.64005
	A2->Y (FR)	0.04087	0.19154	0.63475
	B0->Y (FR)	0.03982	0.19381	0.64603
	B1->Y (FR)	0.03610	0.18868	0.64209
	B2->Y (FR)	0.03139	0.18275	0.63751

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7L	A0->Y (RF)	0.03439	0.14317	0.46780
	A1->Y (RF)	0.03023	0.14621	0.50812
	A2->Y (RF)	0.02913	0.14534	0.51359
	B0->Y (RF)	0.02484	0.13027	0.45762
	B1->Y (RF)	0.02345	0.13520	0.49796
	B2->Y (RF)	0.01950	0.13156	0.50290

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7L	A0	0.00476	0.00494	0.00598
	A0	-0.00037	-0.00037	-0.00031
	A0	0.00043	0.00044	0.00045
	A0	0.00000	0.00019	0.00146
	A1	0.00438	0.00455	0.00559
	A1	-0.00037	-0.00037	-0.00033
	A1	0.00035	0.00036	0.00036
	A1	0.00004	0.00026	0.00153
	A2	0.00393	0.00414	0.00536
	A2	-0.00039	-0.00036	-0.00031
	A2	0.00019	0.00027	0.00035
	A2	0.00002	0.00028	0.00176
	B0	0.00350	0.00381	0.00544
	B0	-0.00014	-0.00013	-0.00008
	B0	0.00044	0.00044	0.00045
	B0	-0.00020	0.00016	0.00212
	B1	0.00313	0.00342	0.00503
	B1	-0.00014	-0.00013	-0.00009
	B1	0.00030	0.00036	0.00036
	B1	-0.00017	0.00020	0.00215
	B2	0.00272	0.00303	0.00482
	B2	-0.00014	-0.00013	-0.00008
	B2	0.00016	0.00026	0.00031
	B2	-0.00020	0.00022	0.00246

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7L	A0	-0.00020	-0.00004	0.00099
	A0	0.00038	0.00038	0.00039
	A0	-0.00028	-0.00026	-0.00023
	A0	0.00443	0.00461	0.00560
	A1	-0.00019	-0.00002	0.00110
	A1	0.00038	0.00038	0.00039
	A1	-0.00018	-0.00018	-0.00013
	A1	0.00386	0.00413	0.00523
	A2	-0.00019	0.00006	0.00156
	A2	0.00036	0.00037	0.00041
	A2	-0.00010	-0.00009	-0.00006
	A2	0.00353	0.00380	0.00526
	B0	-0.00012	0.00010	0.00163
	B0	0.00013	0.00014	0.00015
	B0	-0.00028	-0.00026	-0.00022
	B0	0.00360	0.00380	0.00509
	B1	-0.00010	0.00014	0.00174
	B1	0.00013	0.00014	0.00014
	B1	-0.00021	-0.00017	0.00000
	B1	0.00315	0.00336	0.00473
	B2	-0.00013	0.00020	0.00220
	B2	0.00013	0.00014	0.00014
	B2	-0.00010	-0.00010	-0.00000
	B2	0.00270	0.00299	0.00473

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00027	-0.00023	-0.00017
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00054	0.00056	0.00057
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00048	0.00048	0.00048
	(A1 * !A2 * !B2 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00000	0.00001
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00051	0.00051	0.00051
	(A1 * !A2 * !B1 * B2 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00051	0.00051	0.00051
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00051	0.00051	0.00051
	(!A1 * B0 * B1 * B2 * !Y)	-0.00034	-0.00033	-0.00033
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00049	0.00049	0.00050
	(!A1 * A2 * !B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00052	0.00052	0.00052
	(!A1 * A2 * !B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00051	0.00052	0.00052
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00051	0.00052	0.00052
	(!A1 * !A2 * !B2 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00049	0.00049	0.00049
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00049
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00028	0.00028	0.00029
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00054	-0.00054	-0.00053
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00048	-0.00046	-0.00042
	(A1 * !A2 * !B2 * Y)	0.00035	0.00036	0.00039
	(A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00048	-0.00045	-0.00040
	(A1 * !A2 * !B1 * B2 * Y)	0.00034	0.00036	0.00038
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00048	-0.00045	-0.00040
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00034	0.00036	0.00038
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00048	-0.00045	-0.00040
	(!A1 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00049	-0.00048	-0.00045
	(!A1 * A2 * !B2 * Y)	0.00034	0.00035	0.00036
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A1 * A2 * !B1 * B2 * Y)	0.00034	0.00035	0.00036
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00048	-0.00046	-0.00042
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00034	0.00035	0.00036
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00048	-0.00046	-0.00042
	(!A1 * !A2 * !B2 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00049	-0.00047	-0.00044
	(!A1 * !A2 * !B1 * B2 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00049	-0.00047	-0.00044
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00048	-0.00047	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00027	-0.00023	-0.00017
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00051	0.00053	0.00055
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00046	0.00047	0.00047
	(A0 * !A2 * !B2 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00049	0.00049	0.00050
	(A0 * !A2 * !B1 * B2 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00050
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00049	0.00049	0.00050
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B2 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * B2 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00029	0.00029	0.00030
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00034	0.00035	0.00035
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00047	-0.00045	-0.00044
	(A0 * !A2 * !B2 * Y)	0.00036	0.00038	0.00041
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00046	-0.00043	-0.00038
	(A0 * !A2 * !B1 * B2 * Y)	0.00036	0.00038	0.00041
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00046	-0.00043	-0.00038
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00036	0.00038	0.00043
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00046	-0.00044	-0.00040
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00035	0.00035	0.00035
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00046	-0.00044	-0.00042
	(!A0 * A2 * !B2 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B2 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A2 * !B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00034	0.00035	0.00035
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B2 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00027	-0.00023	-0.00017
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00054	0.00055	0.00057
	(!A1 * B0 * B1 * B2 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00047	0.00049	0.00049
	(!A1 * !B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * B2 * Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * B1 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00015
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00004
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * !B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B1 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00029	0.00029	0.00029
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00053	-0.00053	-0.00052
	(!A1 * B0 * B1 * B2 * !Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * !B2 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B1 * B2 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * B1 * B2 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00048	-0.00044	-0.00039
	(!A0 * A1 * !B2 * Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * B2 * Y)	0.00052	0.00052	0.00052
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00052	0.00052	0.00052
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00067	0.00067	0.00067
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00062	0.00062	0.00063
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00063	0.00064	0.00064
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00063	0.00063	0.00064
	(!A2 * B1 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A2 * !B1 * B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A2 * !B1 * !B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * B1 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A1 * A2 * !B1 * B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00046	0.00046	0.00047
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00067	-0.00066	-0.00065
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00063	-0.00060	-0.00056
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00063	-0.00062	-0.00060
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00063	-0.00061	-0.00059
	(!A2 * B1 * !B2 * Y)	0.00041	0.00042	0.00044
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00042	-0.00040	-0.00036
	(!A2 * !B1 * B2 * Y)	0.00041	0.00041	0.00043
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00043	-0.00041	-0.00038
	(!A2 * !B1 * !B2 * Y)	0.00040	0.00040	0.00040
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00043	-0.00041	-0.00038
	(!A1 * A2 * B1 * !B2 * Y)	0.00041	0.00042	0.00044
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * A2 * !B1 * B2 * Y)	0.00041	0.00041	0.00043
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00043	-0.00041	-0.00039
	(!A1 * A2 * !B1 * !B2 * Y)	0.00040	0.00040	0.00040
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00043	-0.00041	-0.00038
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00041	0.00042	0.00044
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00043	-0.00040	-0.00035
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00040	0.00041	0.00043
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00043	-0.00041	-0.00039
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00040	0.00040	0.00040
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00043	-0.00041	-0.00038

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00067	0.00068	0.00068
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00066	0.00066	0.00066
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00064	0.00065	0.00065
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00036	0.00036	0.00036
	(!A2 * B0 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A2 * !B0 * B2 * Y)	-0.00043	-0.00043	-0.00042
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00011
	(!A2 * !B0 * !B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B0 * B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00012
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00012
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00066	-0.00064	-0.00062
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00065	-0.00063	-0.00061
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00036	-0.00036	-0.00036
	(!A2 * B0 * !B2 * Y)	0.00041	0.00043	0.00047
	(!A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00039
	(!A2 * !B0 * B2 * Y)	0.00043	0.00043	0.00044
	(!A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00010
	(!A2 * !B0 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00007
	(!A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * B0 * !B2 * Y)	0.00041	0.00043	0.00047
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00038
	(!A1 * A2 * !B0 * B2 * Y)	0.00043	0.00043	0.00044
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00041	0.00043	0.00047
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00038
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00043	0.00043	0.00044
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00068	0.00068	0.00069
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00002	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00065	0.00066	0.00067
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00064	0.00064	0.00065
	(!A2 * !B1 * Y)	-0.00059	-0.00058	-0.00058
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00004	0.00004	0.00005
	(!A2 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A2 * !B0 * B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00005
	(!A2 * !B0 * B1 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B1 * Y)	0.00010	0.00011	0.00012
	(!A1 * A2 * !B0 * B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00066	-0.00064	-0.00062
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00065	-0.00060	-0.00055
	(!A2 * !B1 * Y)	0.00058	0.00059	0.00059
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A2 * !B0 * B1 * Y)	0.00058	0.00059	0.00059
	(!A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B1 * Y)	0.00058	0.00059	0.00059
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00011	-0.00010	-0.00010
	(!A1 * A2 * !B0 * B1 * Y)	0.00058	0.00059	0.00059
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * A2 * !B1 * Y)	0.00058	0.00059	0.00059
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00058	0.00059	0.00059
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00008

AOI33X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X4H7L	0.00186	0.00185	0.00195	0.00194	0.00196	0.00202	0.07824

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X4H7L	0.00000	2.03570	6.62467

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7L	A0->Y (FR)	0.04466	0.19817	0.64376
	A1->Y (FR)	0.04108	0.19329	0.63950
	A2->Y (FR)	0.03671	0.18784	0.63455
	B0->Y (FR)	0.03604	0.19073	0.64622
	B1->Y (FR)	0.03267	0.18596	0.64258
	B2->Y (FR)	0.02819	0.18026	0.63985

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7L	A0->Y (RF)	0.03079	0.13789	0.45971
	A1->Y (RF)	0.02694	0.14122	0.50147
	A2->Y (RF)	0.02354	0.13851	0.50912
	B0->Y (RF)	0.02191	0.12568	0.45001
	B1->Y (RF)	0.02069	0.13082	0.49241
	B2->Y (RF)	0.01706	0.12775	0.49869

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7L	A0	0.00555	0.00578	0.00717
	A0	-0.00049	-0.00048	-0.00040
	A0	0.00058	0.00058	0.00059
	A0	-0.00007	0.00017	0.00180
	A1	0.00509	0.00531	0.00670
	A1	-0.00049	-0.00048	-0.00041
	A1	0.00042	0.00047	0.00048
	A1	-0.00003	0.00024	0.00189
	A2	0.00456	0.00482	0.00646
	A2	-0.00049	-0.00048	-0.00044
	A2	0.00017	0.00024	0.00062
	A2	-0.00008	0.00025	0.00222
	B0	0.00405	0.00447	0.00659
	B0	-0.00018	-0.00018	-0.00012
	B0	0.00057	0.00058	0.00058
	B0	-0.00027	0.00019	0.00273
	B1	0.00366	0.00403	0.00614
	B1	-0.00018	-0.00017	-0.00012
	B1	0.00039	0.00047	0.00047
	B1	-0.00022	0.00026	0.00277
	B2	0.00317	0.00356	0.00591
	B2	-0.00018	-0.00017	-0.00011
	B2	0.00027	0.00035	0.00038
	B2	-0.00025	0.00029	0.00318

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7L	A0	-0.00025	-0.00004	0.00131
	A0	0.00050	0.00051	0.00051
	A0	-0.00036	-0.00034	0.00021
	A0	0.00530	0.00552	0.00684
	A1	-0.00024	-0.00002	0.00145
	A1	0.00048	0.00049	0.00053
	A1	-0.00025	-0.00024	-0.00022
	A1	0.00472	0.00496	0.00640
	A2	-0.00024	0.00009	0.00202
	A2	0.00048	0.00049	0.00053
	A2	-0.00012	-0.00011	-0.00009
	A2	0.00418	0.00454	0.00643
	B0	-0.00019	0.00011	0.00214
	B0	0.00017	0.00018	0.00019
	B0	-0.00036	-0.00035	-0.00033
	B0	0.00422	0.00447	0.00619
	B1	-0.00018	0.00014	0.00226
	B1	0.00015	0.00018	0.00020
	B1	-0.00024	-0.00023	-0.00019
	B1	0.00362	0.00395	0.00577
	B2	-0.00020	0.00022	0.00283
	B2	0.00015	0.00018	0.00019
	B2	-0.00012	-0.00011	-0.00004
	B2	0.00314	0.00351	0.00576

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00034	-0.00029	-0.00022
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00061	0.00062	0.00064
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00042	-0.00042	-0.00041
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B2 * Y)	-0.00042	-0.00042	-0.00041
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B2 * Y)	0.00057	0.00058	0.00058
	(A1 * !A2 * !B1 * B2 * Y)	-0.00042	-0.00042	-0.00041
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00057	0.00058	0.00058
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00042	-0.00042	-0.00041
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00057	0.00058	0.00058
	(!A1 * B0 * B1 * B2 * !Y)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B2 * Y)	-0.00042	-0.00041	-0.00041
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00058	0.00059	0.00059
	(!A1 * A2 * !B1 * B2 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00058	0.00059	0.00059
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00058	0.00059	0.00059
	(!A1 * !A2 * !B2 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00055	0.00056	0.00056
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00055	0.00056	0.00056
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00055	0.00056	0.00056

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00036	0.00036	0.00036
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00042	0.00042	0.00042
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00054	-0.00051	-0.00046
	(A1 * !A2 * !B2 * Y)	0.00043	0.00044	0.00047
	(A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00054	-0.00050	-0.00045
	(A1 * !A2 * !B1 * B2 * Y)	0.00043	0.00044	0.00047
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00054	-0.00051	-0.00045
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00043	0.00044	0.00047
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00054	-0.00051	-0.00045
	(!A1 * B0 * B1 * B2 * !Y)	0.00042	0.00042	0.00042
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00055	-0.00054	-0.00052
	(!A1 * A2 * !B2 * Y)	0.00043	0.00044	0.00047
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00055	-0.00052	-0.00049
	(!A1 * A2 * !B1 * B2 * Y)	0.00043	0.00044	0.00046
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00055	-0.00052	-0.00049
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00043	0.00044	0.00046
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00055	-0.00052	-0.00049
	(!A1 * !A2 * !B2 * Y)	0.00042	0.00042	0.00043
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00055	-0.00052	-0.00050
	(!A1 * !A2 * !B1 * B2 * Y)	0.00042	0.00042	0.00043
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00055	-0.00052	-0.00050
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00042	0.00042	0.00043
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00055	-0.00052	-0.00050

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00035	-0.00029	-0.00022
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00058	0.00059	0.00061
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00053	0.00053	0.00053
	(A0 * !A2 * !B2 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00056	0.00056	0.00056
	(A0 * !A2 * !B1 * B2 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00056	0.00056	0.00056
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00056	0.00056	0.00057
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00052	0.00052	0.00052
	(!A0 * A2 * !B2 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B2 * Y)	-0.00046	-0.00045	-0.00045
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00046	-0.00046	-0.00045
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00046	-0.00046	-0.00045
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00037	0.00037	0.00037
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00043	0.00043	0.00043
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00053	-0.00051	-0.00049
	(A0 * !A2 * !B2 * Y)	0.00044	0.00047	0.00050
	(A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00052	-0.00049	-0.00043
	(A0 * !A2 * !B1 * B2 * Y)	0.00044	0.00047	0.00050
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00052	-0.00049	-0.00043
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00044	0.00047	0.00050
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00052	-0.00049	-0.00043
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00043	0.00043	0.00044
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00052	-0.00050	-0.00048
	(!A0 * A2 * !B2 * Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B1 * B2 * Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00043	0.00043	0.00044
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B2 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00035	-0.00030	-0.00023
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00060	0.00061	0.00063
	(!A1 * B0 * B1 * B2 * !Y)	-0.00043	-0.00043	-0.00043
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00054	0.00054	0.00055
	(!A1 * !B2 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * B2 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * B1 * B2 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * !B2 * Y)	-0.00062	-0.00061	-0.00060
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * !B2 * Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B1 * B2 * Y)	-0.00062	-0.00061	-0.00060
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00062	-0.00061	-0.00060
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00037	0.00037	0.00037
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00059	-0.00059	-0.00058
	(!A1 * B0 * B1 * B2 * !Y)	0.00043	0.00043	0.00044
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00054	-0.00053	-0.00051
	(!A1 * !B2 * Y)	0.00062	0.00062	0.00062
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * B2 * Y)	0.00062	0.00062	0.00062
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * B2 * Y)	0.00061	0.00062	0.00062
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00043	0.00043	0.00044
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00053	-0.00049	-0.00043
	(!A0 * A1 * !B2 * Y)	0.00062	0.00062	0.00062
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B1 * B2 * Y)	0.00062	0.00062	0.00062
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00062	0.00062	0.00062
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00075	0.00075	0.00075
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00070	0.00070	0.00070
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00071	0.00072	0.00072
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00071	0.00072	0.00072
	(!A2 * B1 * !B2 * Y)	-0.00048	-0.00048	-0.00047
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * B1 * !B2 * Y)	0.00052	0.00052	0.00053
	(!A2 * !B1 * B2 * Y)	-0.00048	-0.00048	-0.00047
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A2 * !B1 * !B2 * Y)	-0.00048	-0.00048	-0.00048
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00050	0.00050	0.00050
	(!A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00051	0.00052	0.00053
	(!A1 * A2 * !B1 * B2 * Y)	-0.00048	-0.00048	-0.00048
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00049	-0.00048	-0.00048
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	0.00050	0.00050	0.00050
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00051	0.00052	0.00053
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00049	-0.00048	-0.00048
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00050	0.00050	0.00050

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00075	-0.00074	-0.00074
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00070	-0.00067	-0.00063
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00071	-0.00069	-0.00068
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00071	-0.00069	-0.00065
	(!A2 * B1 * !B2 * Y)	0.00049	0.00050	0.00053
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00048	-0.00045	-0.00039
	(!A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00051
	(!A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A2 * !B1 * !B2 * Y)	0.00049	0.00049	0.00049
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * A2 * B1 * !B2 * Y)	0.00049	0.00050	0.00053
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00045	-0.00039
	(!A1 * A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00051
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A1 * A2 * !B1 * !B2 * Y)	0.00049	0.00049	0.00049
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00049	-0.00047	-0.00043
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00049	0.00050	0.00053
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00045	-0.00039
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00051
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00048	0.00049	0.00049
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00049	-0.00047	-0.00043

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00076	0.00077	0.00077
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00074	0.00074	0.00078
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00072	0.00073	0.00073
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00037	0.00037	0.00037
	(!A2 * B0 * !B2 * Y)	-0.00049	-0.00048	-0.00048
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00053	0.00053	0.00054
	(!A2 * !B0 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00008	0.00008	0.00008
	(!A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A2 * !B0 * !B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * B0 * !B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !B0 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00073	-0.00072	-0.00069
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00073	-0.00071	-0.00068
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00037	-0.00037	-0.00037
	(!A2 * B0 * !B2 * Y)	0.00050	0.00053	0.00057
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B0 * !B2 * Y)	-0.00049	-0.00047	-0.00042
	(!A2 * !B0 * B2 * Y)	0.00052	0.00053	0.00053
	(!A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00008	-0.00008	-0.00007
	(!A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A2 * !B0 * !B2 * Y)	0.00053	0.00053	0.00054
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * A2 * B0 * !B2 * Y)	0.00050	0.00053	0.00057
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00049	-0.00047	-0.00041
	(!A1 * A2 * !B0 * B2 * Y)	0.00052	0.00052	0.00053
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * !B0 * B2 * Y)	-0.00010	-0.00009	-0.00009
	(!A1 * A2 * !B0 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00050	0.00053	0.00057
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00049	-0.00047	-0.00041
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00076	0.00076	0.00077
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00072	0.00073	0.00074
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00072	0.00072	0.00072
	(!A2 * !B1 * Y)	-0.00069	-0.00068	-0.00068
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A2 * !B0 * B1 * Y)	-0.00069	-0.00069	-0.00068
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00006
	(!A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00009
	(!A1 * A2 * !B1 * Y)	-0.00069	-0.00069	-0.00068
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * B1 * Y)	-0.00069	-0.00069	-0.00068
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * A2 * !B1 * Y)	-0.00069	-0.00069	-0.00068
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00069	-0.00069	-0.00069
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

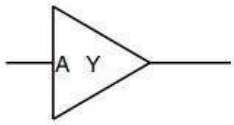
AOI33X4H7L	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00073	-0.00071	-0.00069
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00072	-0.00067	-0.00059
	(!A2 * !B1 * Y)	0.00069	0.00069	0.00069
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A2 * !B1 * Y)	-0.00010	-0.00008	0.00001
	(!A2 * !B0 * B1 * Y)	0.00069	0.00069	0.00070
	(!A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00006	-0.00005	-0.00005
	(!A2 * !B0 * B1 * Y)	-0.00008	-0.00007	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00069	0.00069	0.00069
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B0 * B1 * Y)	0.00069	0.00069	0.00070
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * A2 * !B1 * Y)	0.00069	0.00069	0.00069
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00069	0.00069	0.00070
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007

BUFX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P5H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P5H7L	0.00085	0.04534

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P5H7L	0.00000	1.31299	1.31299

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7L	A->Y (RR)	0.02531	0.14672	0.45241

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7L	A->Y (FF)	0.02710	0.12940	0.38900

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7L	A	0.00036	0.00065	0.00166
	A	-0.00000	-0.00000	0.00000
	A	-0.00000	0.00000	0.00000
	A	0.00096	0.00125	0.00226

Internal switching power(pJ) to Y falling :

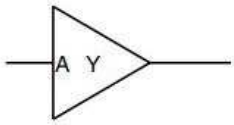
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7L	A	0.00092	0.00124	0.00236
	A	0.00000	0.00000	0.00000
	A	-0.00000	-0.00000	0.00000
	A	0.00032	0.00064	0.00176

BUFX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P7H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P7H7L	0.00087	0.05147

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P7H7L	0.00000	1.35478	1.38475

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7L	A->Y (RR)	0.02468	0.14679	0.45333

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7L	A->Y (FF)	0.02689	0.12927	0.38834

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7L	A	0.00036	0.00066	0.00168
	A	-0.00000	-0.00000	0.00000
	A	0.00000	0.00000	0.00000
	A	0.00097	0.00127	0.00229

Internal switching power(pJ) to Y falling :

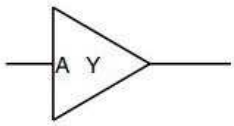
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7L	A	0.00095	0.00128	0.00243
	A	0.00000	0.00000	0.00001
	A	-0.00000	-0.00000	-0.00000
	A	0.00035	0.00066	0.00181

BUFX10H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX10H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX10H7L	0.00226	0.41374

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX10H7L	0.00000	7.37398	9.40854

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7L	A->Y (RR)	0.02114	0.14861	0.46064

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7L	A->Y (FF)	0.02619	0.13551	0.40200

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7L	A	0.00274	0.00394	0.00882
	A	-0.00009	-0.00008	-0.00008
	A	0.00008	0.00008	0.00009
	A	0.00419	0.00540	0.01027

Internal switching power(pJ) to Y falling :

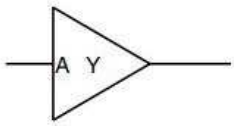
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7L	A	0.00445	0.00569	0.01132
	A	0.00008	0.00008	0.00009
	A	-0.00008	-0.00008	-0.00008
	A	0.00301	0.00421	0.00987

BUFX12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX12H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX12H7L	0.00275	0.49801

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX12H7L	0.00000	8.78715	11.27080

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7L	A->Y (RR)	0.02096	0.14926	0.46381

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7L	A->Y (FF)	0.02556	0.13393	0.39819

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7L	A	0.00333	0.00481	0.01077
	A	-0.00010	-0.00010	-0.00004
	A	0.00009	0.00010	0.00010
	A	0.00510	0.00661	0.01255

Internal switching power(pJ) to Y falling :

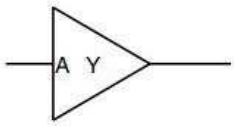
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7L	A	0.00537	0.00691	0.01376
	A	0.00004	0.00010	0.00010
	A	-0.00010	-0.00010	-0.00009
	A	0.00359	0.00508	0.01198

BUFX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX16H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX16H7L	0.00302	0.66246

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX16H7L	0.00000	10.81700	14.13460

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7L	A->Y (RR)	0.02076	0.14965	0.46540

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7L	A->Y (FF)	0.02543	0.13525	0.40167

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7L	A	0.00420	0.00595	0.01339
	A	-0.00014	-0.00014	-0.00012
	A	0.00013	0.00014	0.00015
	A	0.00607	0.00787	0.01528

Internal switching power(pJ) to Y falling :

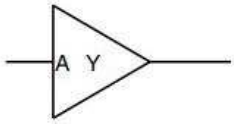
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7L	A	0.00653	0.00835	0.01690
	A	0.00013	0.00014	0.00014
	A	-0.00014	-0.00014	-0.00013
	A	0.00465	0.00643	0.01501

BUFX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1H7L	0.00087	0.06124

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1H7L	0.00000	1.42540	1.50512

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7L	**A->Y (RR)**	0.02393	0.14688	0.45503

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7L	**A->Y (FF)**	0.02666	0.13053	0.39260

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7L	A	0.00042	0.00071	0.00177
	A	-0.00001	-0.00001	-0.00000
	A	0.00000	0.00001	0.00001
	A	0.00102	0.00132	0.00237

Internal switching power(pJ) to Y falling :

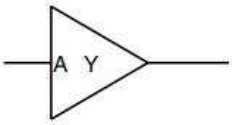
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7L	A	0.00098	0.00131	0.00249
	A	0.00000	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00000
	A	0.00038	0.00070	0.00188

BUFX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1P4H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1P4H7L	0.00091	0.06987

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1P4H7L	0.00000	1.50417	1.63975

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7L	A->Y (RR)	0.02466	0.14952	0.46079

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7L	A->Y (FF)	0.02814	0.13338	0.39652

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7L	A	0.00044	0.00074	0.00182
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00107	0.00138	0.00245

Internal switching power(pJ) to Y falling :

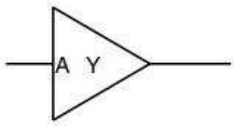
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7L	A	0.00110	0.00143	0.00264
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00001
	A	0.00047	0.00079	0.00201

BUFX20H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX20H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX20H7L	0.00396	0.82897

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX20H7L	0.00000	14.39170	18.99420

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7L	**A->Y (RR)**	0.02054	0.14925	0.46404

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7L	**A->Y (FF)**	0.02469	0.12974	0.38438

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7L	A	0.00542	0.00776	0.01751
	A	-0.00017	-0.00017	-0.00015
	A	0.00017	0.00018	0.00019
	A	0.00789	0.01028	0.01998

Internal switching power(pJ) to Y falling :

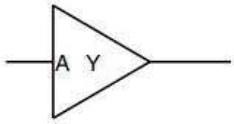
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7L	A	0.00852	0.01095	0.02218
	A	0.00015	0.00017	0.00017
	A	-0.00019	-0.00018	-0.00017
	A	0.00603	0.00841	0.01970

BUFX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2H7L	0.00091	0.08275

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2H7L	0.00000	1.63986	1.86900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7L	**A->Y (RR)**	0.02499	0.15127	0.46431

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7L	**A->Y (FF)**	0.02871	0.13405	0.39577

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7L	A	0.00056	0.00087	0.00201
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00119	0.00150	0.00263

Internal switching power(pJ) to Y falling :

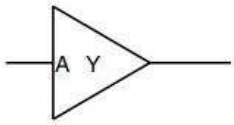
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7L	A	0.00117	0.00150	0.00278
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00001
	A	0.00055	0.00087	0.00216

BUFX2P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2P5H7L	0.00089	0.10996

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2P5H7L	0.00000	2.10115	2.62924

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7L	A->Y (RR)	0.02755	0.15764	0.47588

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7L	A->Y (FF)	0.03263	0.14363	0.41439

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7L	A	0.00080	0.00112	0.00242
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	0.00139	0.00172	0.00301

Internal switching power(pJ) to Y falling :

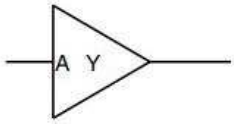
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7L	A	0.00146	0.00182	0.00332
	A	0.00002	0.00002	0.00004
	A	-0.00002	-0.00002	-0.00002
	A	0.00087	0.00122	0.00273

BUFX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3H7L	0.00091	0.12774

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3H7L	0.00000	2.29637	2.95987

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7L	**A->Y (RR)**	0.02838	0.16001	0.48125

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7L	**A->Y (FF)**	0.03401	0.14592	0.41705

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7L	A	0.00093	0.00127	0.00268
	A	-0.00003	-0.00003	-0.00000
	A	0.00003	0.00003	0.00003
	A	0.00152	0.00187	0.00328

Internal switching power(pJ) to Y falling :

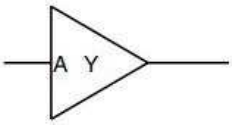
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7L	A	0.00161	0.00196	0.00360
	A	0.00000	0.00003	0.00004
	A	-0.00003	-0.00003	-0.00003
	A	0.00100	0.00135	0.00301

BUFX3P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3P5H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3P5H7L	0.00099	0.14647

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3P5H7L	0.00000	2.54675	3.23210

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7L	A->Y (RR)	0.02374	0.15214	0.46788

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7L	A->Y (FF)	0.02809	0.13637	0.40109

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7L	A	0.00095	0.00136	0.00304
	A	-0.00003	-0.00003	-0.00003
	A	0.00003	0.00003	0.00003
	A	0.00159	0.00202	0.00369

Internal switching power(pJ) to Y falling :

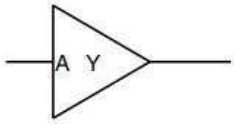
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7L	A	0.00166	0.00212	0.00404
	A	0.00003	0.00003	0.00005
	A	-0.00003	-0.00003	-0.00003
	A	0.00103	0.00145	0.00339

BUFX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX4H7L	0.00108	0.16531

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX4H7L	0.00000	2.82285	3.56831

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7L	**A->Y (RR)**	0.02232	0.14986	0.46361

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7L	**A->Y (FF)**	0.02702	0.13526	0.40040

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7L	A	0.00103	0.00149	0.00337
	A	-0.00004	-0.00003	-0.00000
	A	0.00003	0.00003	0.00004
	A	0.00173	0.00221	0.00407

Internal switching power(pJ) to Y falling :

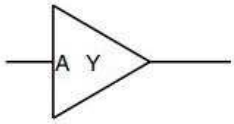
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7L	A	0.00178	0.00230	0.00446
	A	0.00000	0.00003	0.00007
	A	-0.00003	-0.00003	-0.00003
	A	0.00110	0.00158	0.00376

BUFX5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX5H7L	0.00108	0.21098

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX5H7L	0.00000	3.52489	4.64740

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7L	**A->Y (RR)**	0.02337	0.15330	0.47100

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7L	**A->Y (FF)**	0.02859	0.13961	0.40858

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7L	A	0.00136	0.00189	0.00414
	A	-0.00005	-0.00004	-0.00004
	A	0.00004	0.00004	0.00005
	A	0.00205	0.00258	0.00483

Internal switching power(pJ) to Y falling :

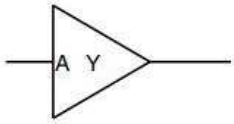
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7L	A	0.00223	0.00278	0.00541
	A	0.00004	0.00005	0.00005
	A	-0.00004	-0.00004	-0.00004
	A	0.00150	0.00208	0.00472

BUFX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX6H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX6H7L	0.00139	0.24797

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX6H7L	0.00000	4.46795	5.79498

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7L	A->Y (RR)	0.02461	0.15378	0.46749

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7L	A->Y (FF)	0.03124	0.14393	0.41681

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7L	A	0.00173	0.00235	0.00506
	A	-0.00006	-0.00006	-0.00005
	A	0.00005	0.00006	0.00006
	A	0.00261	0.00324	0.00594

Internal switching power(pJ) to Y falling :

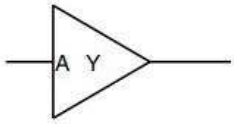
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7L	A	0.00279	0.00345	0.00665
	A	0.00005	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00005
	A	0.00186	0.00255	0.00576

BUFX7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX7H7L	0.00161	0.29399

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX7H7L	0.00000	5.08735	6.52423

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7L	**A->Y (RR)**	0.02111	0.14940	0.46462

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7L	**A->Y (FF)**	0.02554	0.13425	0.39988

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7L	A	0.00175	0.00258	0.00604
	A	-0.00006	-0.00006	-0.00006
	A	0.00006	0.00006	0.00006
	A	0.00278	0.00362	0.00707

Internal switching power(pJ) to Y falling :

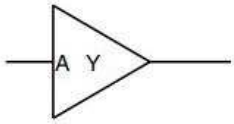
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7L	A	0.00297	0.00383	0.00776
	A	0.00006	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00006
	A	0.00194	0.00277	0.00673

BUFX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX8H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX8H7L	0.00179	0.33169

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX8H7L	0.00000	5.91945	7.68428

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7L	**A->Y (RR)**	0.02144	0.14964	0.46419

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7L	**A->Y (FF)**	0.02587	0.13353	0.39607

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7L	A	0.00229	0.00328	0.00722
	A	-0.00007	-0.00006	0.00000
	A	0.00006	0.00006	0.00007
	A	0.00344	0.00444	0.00836

Internal switching power(pJ) to Y falling :

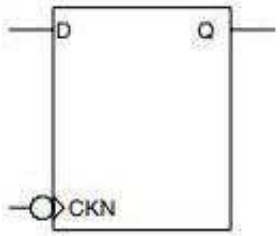
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7L	A	0.00358	0.00461	0.00914
	A	0.00000	0.00006	0.00007
	A	-0.00007	-0.00006	-0.00006
	A	0.00243	0.00342	0.00799

DFFNQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX1H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX1H7L	0.00083	0.00064	0.06121

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX1H7L	0.00000	4.63980	5.35601

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7L	CKN->Q (FR)	0.07859	0.23706	0.62015

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7L	CKN->Q (FF)	0.10905	0.23171	0.50220

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX1H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7L	**hold**	**CKN (F)**	-0.00944	0.04306	0.12213
	setup	**CKN (F)**	-0.09734	-0.00873	0.04995

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7L	**hold**	**CKN (F)**	-0.11360	-0.02826	0.03920
	setup	**CKN (F)**	-0.02815	0.03964	0.13434

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7L	CKN	0.00373	0.00408	0.00532
	CKN	0.00003	0.00003	0.00005
	CKN	-0.00003	-0.00003	0.00001
	CKN	0.00318	0.00353	0.00478

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7L	CKN	0.00369	0.00397	0.00500
	CKN	-0.00002	-0.00002	-0.00002
	CKN	0.00004	0.00004	0.00004
	CKN	0.00305	0.00333	0.00436

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7L	0.00269	0.00296	0.00397
	-0.00000	-0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00313	0.00341	0.00442

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7L	0.00229	0.00257	0.00358
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00167	0.00197	0.00298

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7L	0.00097	0.00112	0.00170
	0.00003	0.00003	0.00004
	-0.00004	-0.00004	-0.00004
	0.00147	0.00163	0.00220

Passive power(pJ) for D falling :

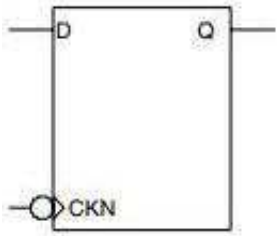
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7L	0.00149	0.00167	0.00232
	-0.00004	-0.00003	-0.00003
	0.00004	0.00004	0.00005
	0.00099	0.00117	0.00182

DFFNQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX2H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX2H7L	0.00083	0.00066	0.08267

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX2H7L	0.00000	4.91193	5.80679

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7L	CKN->Q (FR)	0.07847	0.23866	0.62361

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7L	CKN->Q (FF)	0.10979	0.23287	0.50018

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX2H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7L	**hold**	**CKN (F)**	-0.00575	0.04375	0.12503
	setup	**CKN (F)**	-0.09705	-0.01020	0.04934

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7L	**hold**	**CKN (F)**	-0.11261	-0.02846	0.03930
	setup	**CKN (F)**	-0.02815	0.03947	0.13434

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7L	CKN	0.00379	0.00415	0.00545
	CKN	0.00002	0.00002	0.00003
	CKN	-0.00005	-0.00002	0.00002
	CKN	0.00322	0.00358	0.00488

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7L	CKN	0.00380	0.00409	0.00517
	CKN	-0.00001	-0.00001	-0.00001
	CKN	0.00001	0.00003	0.00006
	CKN	0.00315	0.00348	0.00455

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7L	0.00269	0.00298	0.00400
	-0.00001	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00313	0.00341	0.00444

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7L	0.00222	0.00253	0.00355
	0.00000	0.00000	0.00001
	-0.00004	-0.00001	0.00001
	0.00166	0.00194	0.00295

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7L	0.00097	0.00114	0.00173
	0.00003	0.00003	0.00004
	-0.00004	-0.00004	-0.00004
	0.00150	0.00166	0.00225

Passive power(pJ) for D falling :

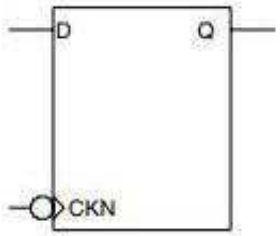
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7L	0.00152	0.00171	0.00238
	-0.00004	-0.00003	-0.00003
	0.00004	0.00004	0.00005
	0.00100	0.00118	0.00186

DFFNQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX3H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX3H7L	0.00083	0.00068	0.12869

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX3H7L	0.00000	5.57145	6.90490

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7L	CKN->Q (FR)	0.08518	0.24907	0.63851

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7L	CKN->Q (FF)	0.11926	0.24794	0.52126

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX3H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7L	**hold**	**CKN (F)**	-0.00571	0.04467	0.12332
	setup	**CKN (F)**	-0.10310	-0.01286	0.04493

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7L	**hold**	**CKN (F)**	-0.11045	-0.02739	0.03993
	setup	**CKN (F)**	-0.03199	0.03785	0.13214

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7L	CKN	0.00423	0.00461	0.00608
	CKN	-0.00000	0.00000	0.00000
	CKN	-0.00003	-0.00001	-0.00000
	CKN	0.00364	0.00402	0.00548

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7L	CKN	0.00426	0.00462	0.00588
	CKN	-0.00000	0.00001	0.00001
	CKN	0.00002	0.00002	0.00005
	CKN	0.00367	0.00403	0.00529

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7L	0.00273	0.00301	0.00403
	-0.00000	-0.00000	0.00000
	0.00004	0.00005	0.00005
	0.00317	0.00344	0.00447

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7L	0.00226	0.00254	0.00355
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00166	0.00194	0.00295

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7L	0.00098	0.00115	0.00176
	0.00003	0.00003	0.00004
	-0.00005	-0.00004	-0.00004
	0.00151	0.00168	0.00229

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7L	0.00153	0.00173	0.00241
	-0.00004	-0.00003	-0.00003
	0.00004	0.00004	0.00005
	0.00100	0.00119	0.00188

DFFNRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX0P5H7L	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX0P5H7L	0.00097	0.00076	0.00092	0.06389	0.06343

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX0P5H7L	0.00000	6.64302	8.12778

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7L	CKN->Q (FR)	RN	0.12583	0.27856	0.65474

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7L	CKN->Q (FF)	RN	0.09411	0.21369	0.49635
	RN->Q (FF)	(CKN * D)	0.07036	0.17988	0.44345
	RN->Q (FF)	(CKN * !D)	0.06961	0.17869	0.44117
	RN->Q (FF)	(!CKN * D)	0.07597	0.18613	0.45106
	RN->Q (FF)	(!CKN * !D)	0.07599	0.18613	0.45106

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7L	CKN->QN (FR)	RN	0.07091	0.22953	0.60905
	RN->QN (FR)	(CKN * D)	0.04877	0.19379	0.55134
	RN->QN (FR)	(CKN * !D)	0.04823	0.19267	0.54990
	RN->QN (FR)	(!CKN * D)	0.05265	0.20155	0.56258
	RN->QN (FR)	(!CKN * !D)	0.05267	0.20155	0.56260

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7L	CKN->QN (FF)	RN	0.09393	0.23282	0.52547

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7L	**hold**	**CKN (F)**	0.01536	0.05852	0.14504
	setup	**CKN (F)**	-0.10701	-0.01855	0.03960

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7L	**hold**	**CKN (F)**	-0.09489	-0.01914	0.04216
	setup	**CKN (F)**	-0.02655	0.04544	0.15078

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7L	**recovery**	**CKN (F)**	-0.11659	-0.02629	0.02641
	removal	**CKN (F)**	0.04183	0.08463	0.16303

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7L	CKN	RN	0.00249	0.00269	0.00338
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00000	0.00002	0.00004
	CKN	RN	0.00210	0.00231	0.00300

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7L	CKN	RN	0.00219	0.00239	0.00307
	CKN	RN	0.00000	0.00001	0.00002
	CKN	RN	-0.00004	-0.00002	-0.00000
	CKN	RN	0.00188	0.00209	0.00276
	RN	(CKN * D)	0.00166	0.00187	0.00252
	RN	(CKN * D)	-0.00000	0.00002	0.00002
	RN	(CKN * D)	-0.00005	-0.00003	0.00000
	RN	(CKN * D)	0.00138	0.00158	0.00224
	RN	(CKN * !D)	0.00165	0.00186	0.00252
	RN	(CKN * !D)	-0.00001	0.00002	0.00003
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00001
	RN	(CKN * !D)	0.00136	0.00157	0.00223
	RN	(!CKN * D)	0.00221	0.00242	0.00306
	RN	(!CKN * D)	-0.00002	0.00000	0.00002
	RN	(!CKN * D)	-0.00001	0.00000	0.00002
	RN	(!CKN * D)	0.00187	0.00209	0.00275
	RN	(!CKN * !D)	0.00221	0.00242	0.00306
	RN	(!CKN * !D)	-0.00002	0.00000	0.00002
	RN	(!CKN * !D)	-0.00001	0.00000	0.00002
	RN	(!CKN * !D)	0.00187	0.00209	0.00275

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7L	CKN	RN	0.00218	0.00239	0.00307
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00003	-0.00002	-0.00001
	CKN	RN	0.00189	0.00209	0.00277
	RN	(CKN * D)	0.00166	0.00187	0.00252
	RN	(CKN * D)	0.00000	0.00002	0.00003
	RN	(CKN * D)	-0.00006	-0.00003	0.00000
	RN	(CKN * D)	0.00136	0.00159	0.00226
	RN	(CKN * !D)	0.00164	0.00331	0.03893
	RN	(CKN * !D)	-0.05190	-0.00200	0.00004
	RN	(CKN * !D)	-0.00107	-0.00006	-0.00000
	RN	(CKN * !D)	-0.01128	0.00108	0.00226
	RN	(!CKN * D)	0.00220	0.00242	0.00307
	RN	(!CKN * D)	-0.00003	0.00000	0.00004
	RN	(!CKN * D)	-0.00000	0.00000	0.00002
	RN	(!CKN * D)	0.00188	0.00209	0.00276
	RN	(!CKN * !D)	0.00221	0.00242	0.00307
	RN	(!CKN * !D)	-0.00003	0.00000	0.00004
	RN	(!CKN * !D)	-0.00002	0.00001	0.00004
	RN	(!CKN * !D)	0.00188	0.00209	0.00276

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7L	CKN	RN	0.00249	0.00269	0.00338
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00001	0.00002	0.00003
	CKN	RN	0.00211	0.00231	0.00300

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00288	0.00322	0.00444
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00343	0.00379	0.00502

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00349	0.00379	0.00492
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00274	0.00303	0.00416

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00099	0.00119	0.00192
	0.00002	0.00002	0.00002
	-0.00005	-0.00004	-0.00003
	0.00161	0.00181	0.00254

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00165	0.00186	0.00259
	-0.00002	-0.00002	-0.00002
	0.00003	0.00004	0.00005
	0.00103	0.00123	0.00198

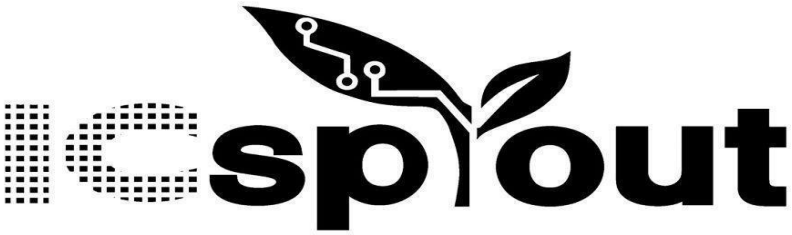
Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00106	0.00139	0.00254
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00162	0.00196	0.00311

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7L	0.00084	0.00121	0.00247
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00014	0.00051	0.00176

DFFNRX1H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX1H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX1H7L	0.00091	0.00077	0.00110	0.07535	0.07517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX1H7L	0.00000	6.92252	8.41296

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7L	CKN->Q (FR)	RN	0.13060	0.28572	0.66753

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7L	CKN->Q (FF)	RN	0.09811	0.21959	0.50597
	RN->Q (FF)	(CKN * D)	0.07074	0.18193	0.44905
	RN->Q (FF)	(CKN * !D)	0.07017	0.18097	0.44692
	RN->Q (FF)	(!CKN * D)	0.07704	0.18922	0.45809
	RN->Q (FF)	(!CKN * !D)	0.07705	0.18922	0.45806

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7L	CKN->QN (FR)	RN	0.07642	0.23707	0.62068
	RN->QN (FR)	(CKN * D)	0.05031	0.19726	0.55889
	RN->QN (FR)	(CKN * !D)	0.04993	0.19633	0.55660
	RN->QN (FR)	(!CKN * D)	0.05471	0.20674	0.57180
	RN->QN (FR)	(!CKN * !D)	0.05471	0.20674	0.57195

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7L	CKN->QN (FF)	RN	0.10082	0.24407	0.54508

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7L	**hold**	**CKN (F)**	0.02298	0.06771	0.16211
	setup	**CKN (F)**	-0.11834	-0.01849	0.04518

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7L	**hold**	**CKN (F)**	-0.10556	-0.02265	0.04146
	setup	**CKN (F)**	-0.02145	0.05393	0.16802

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7L	**recovery**	**CKN (F)**	-0.13178	-0.03038	0.02805
	removal	**CKN (F)**	0.05155	0.09745	0.18312

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7L	CKN	RN	0.00281	0.00301	0.00370
	CKN	RN	-0.00001	-0.00001	0.00000
	CKN	RN	0.00002	0.00002	0.00002
	CKN	RN	0.00243	0.00263	0.00332

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7L	CKN	RN	0.00249	0.00268	0.00333
	CKN	RN	0.00000	0.00001	0.00001
	CKN	RN	-0.00002	-0.00002	-0.00001
	CKN	RN	0.00226	0.00245	0.00309
	RN	(CKN * D)	0.00173	0.00197	0.00264
	RN	(CKN * D)	-0.00001	0.00002	0.00005
	RN	(CKN * D)	-0.00005	-0.00003	0.00007
	RN	(CKN * D)	0.00140	0.00166	0.00236
	RN	(CKN * !D)	0.00172	0.00197	0.00263
	RN	(CKN * !D)	-0.00000	0.00002	0.00013
	RN	(CKN * !D)	-0.00003	-0.00002	-0.00000
	RN	(CKN * !D)	0.00141	0.00165	0.00231
	RN	(!CKN * D)	0.00245	0.00266	0.00331
	RN	(!CKN * D)	-0.00001	0.00001	0.00002
	RN	(!CKN * D)	-0.00001	0.00000	0.00002
	RN	(!CKN * D)	0.00209	0.00231	0.00296
	RN	(!CKN * !D)	0.00244	0.00266	0.00331
	RN	(!CKN * !D)	0.00001	0.00001	0.00003
	RN	(!CKN * !D)	-0.00002	0.00000	0.00002
	RN	(!CKN * !D)	0.00209	0.00231	0.00296

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7L	CKN	RN	0.00248	0.00268	0.00333
	CKN	RN	0.00000	0.00001	0.00004
	CKN	RN	-0.00002	-0.00002	-0.00000
	CKN	RN	0.00226	0.00245	0.00310
	RN	(CKN * D)	0.00173	0.00197	0.00266
	RN	(CKN * D)	-0.00001	0.00002	0.00005
	RN	(CKN * D)	-0.00006	-0.00003	0.00001
	RN	(CKN * D)	0.00140	0.00166	0.00237
	RN	(CKN * !D)	0.00166	0.00273	0.03936
	RN	(CKN * !D)	-0.06198	-0.00124	0.00021
	RN	(CKN * !D)	-0.00328	-0.00009	-0.00001
	RN	(CKN * !D)	-0.01877	0.00124	0.00233
	RN	(!CKN * D)	0.00246	0.00266	0.00332
	RN	(!CKN * D)	-0.00002	0.00001	0.00002
	RN	(!CKN * D)	-0.00003	-0.00000	0.00000
	RN	(!CKN * D)	0.00210	0.00231	0.00296
	RN	(!CKN * !D)	0.00246	0.00266	0.00331
	RN	(!CKN * !D)	-0.00002	0.00001	0.00002
	RN	(!CKN * !D)	-0.00003	0.00000	0.00002
	RN	(!CKN * !D)	0.00208	0.00231	0.00297

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7L	CKN	RN	0.00280	0.00301	0.00369
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00000	0.00002	0.00002
	CKN	RN	0.00243	0.00263	0.00332

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00351	0.00383	0.00499
	-0.00000	0.00000	0.00001
	0.00005	0.00006	0.00007
	0.00403	0.00433	0.00549

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00408	0.00436	0.00544
	-0.00001	-0.00000	0.00000
	-0.00007	0.00002	0.00004
	0.00341	0.00373	0.00478

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00128	0.00147	0.00218
	0.00002	0.00002	0.00003
	-0.00004	-0.00004	-0.00003
	0.00190	0.00209	0.00279

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00183	0.00205	0.00285
	-0.00003	-0.00002	-0.00002
	0.00003	0.00004	0.00004
	0.00120	0.00143	0.00224

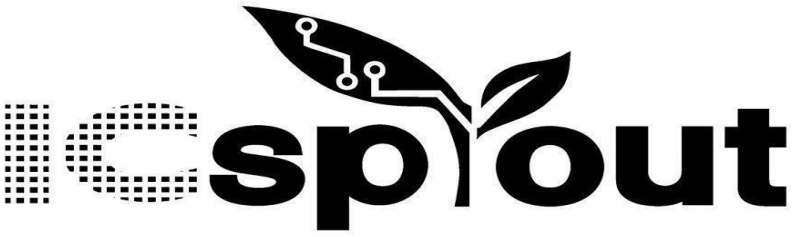
Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00097	0.00131	0.00245
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00166	0.00200	0.00315

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7L	0.00096	0.00133	0.00258
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00012	0.00050	0.00174

DFFNRX2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX2H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX2H7L	0.00104	0.00078	0.00108	0.08682	0.08646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX2H7L	0.00000	7.74113	9.72214

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7L	CKN->Q (FR)	RN	0.12434	0.27722	0.65392

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7L	CKN->Q (FF)	RN	0.09396	0.20934	0.47942
	RN->Q (FF)	(CKN * D)	0.07058	0.17602	0.42828
	RN->Q (FF)	(CKN * !D)	0.06998	0.17508	0.42654
	RN->Q (FF)	(!CKN * D)	0.07757	0.18399	0.43812
	RN->Q (FF)	(!CKN * !D)	0.07757	0.18399	0.43812

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7L	CKN->QN (FR)	RN	0.07172	0.23111	0.61112
	RN->QN (FR)	(CKN * D)	0.04950	0.19589	0.55540
	RN->QN (FR)	(CKN * !D)	0.04910	0.19500	0.55365
	RN->QN (FR)	(!CKN * D)	0.05442	0.20603	0.56960
	RN->QN (FR)	(!CKN * !D)	0.05442	0.20603	0.56959

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7L	CKN->QN (FF)	RN	0.09220	0.23305	0.52915

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7L	**hold**	**CKN (F)**	0.01834	0.06060	0.14653
	setup	**CKN (F)**	-0.10890	-0.01344	0.04982

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7L	**hold**	**CKN (F)**	-0.10495	-0.02609	0.03515
	setup	**CKN (F)**	-0.01526	0.05788	0.17040

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7L	**recovery**	**CKN (F)**	-0.12268	-0.02718	0.02906
	removal	**CKN (F)**	0.04952	0.09355	0.17560

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7L	CKN	RN	0.00298	0.00321	0.00400
	CKN	RN	-0.00002	-0.00001	-0.00000
	CKN	RN	0.00002	0.00002	0.00002
	CKN	RN	0.00254	0.00278	0.00357

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7L	CKN	RN	0.00272	0.00296	0.00372
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00002	-0.00002	-0.00002
	CKN	RN	0.00245	0.00267	0.00344
	RN	(CKN * D)	0.00190	0.00218	0.00297
	RN	(CKN * D)	-0.00001	0.00002	0.00004
	RN	(CKN * D)	-0.00005	-0.00003	-0.00002
	RN	(CKN * D)	0.00161	0.00187	0.00267
	RN	(CKN * !D)	0.00191	0.00218	0.00296
	RN	(CKN * !D)	-0.00000	0.00002	0.00004
	RN	(CKN * !D)	-0.00004	-0.00002	-0.00000
	RN	(CKN * !D)	0.00160	0.00186	0.00265
	RN	(!CKN * D)	0.00267	0.00291	0.00367
	RN	(!CKN * D)	-0.00001	0.00001	0.00003
	RN	(!CKN * D)	-0.00003	-0.00000	0.00000
	RN	(!CKN * D)	0.00233	0.00257	0.00333
	RN	(!CKN * !D)	0.00267	0.00291	0.00367
	RN	(!CKN * !D)	-0.00001	0.00001	0.00003
	RN	(!CKN * !D)	-0.00001	0.00000	0.00000
	RN	(!CKN * !D)	0.00233	0.00257	0.00333

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7L	CKN	RN	0.00272	0.00296	0.00372
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00002	-0.00002	-0.00001
	CKN	RN	0.00245	0.00268	0.00344
	RN	(CKN * D)	0.00193	0.00218	0.00296
	RN	(CKN * D)	-0.00001	0.00002	0.00003
	RN	(CKN * D)	-0.00006	-0.00003	0.00001
	RN	(CKN * D)	0.00159	0.00187	0.00267
	RN	(CKN * !D)	0.00191	0.00218	0.00295
	RN	(CKN * !D)	-0.00001	0.00002	0.00005
	RN	(CKN * !D)	-0.00004	-0.00002	-0.00001
	RN	(CKN * !D)	0.00161	0.00187	0.00265
	RN	(!CKN * D)	0.00266	0.00292	0.00367
	RN	(!CKN * D)	-0.00001	0.00001	0.00004
	RN	(!CKN * D)	-0.00001	-0.00000	0.00000
	RN	(!CKN * D)	0.00233	0.00257	0.00335
	RN	(!CKN * !D)	0.00266	0.00291	0.00367
	RN	(!CKN * !D)	0.00000	0.00001	0.00005
	RN	(!CKN * !D)	-0.00001	0.00000	0.00001
	RN	(!CKN * !D)	0.00233	0.00257	0.00335

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7L	CKN	RN	0.00298	0.00321	0.00400
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00001	0.00002	0.00002
	CKN	RN	0.00254	0.00278	0.00357

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00359	0.00397	0.00531
	-0.00000	0.00000	0.00001
	0.00005	0.00006	0.00007
	0.00423	0.00460	0.00594

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00427	0.00461	0.00589
	0.00000	0.00000	0.00001
	-0.00006	0.00002	0.00005
	0.00352	0.00387	0.00513

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00131	0.00150	0.00222
	0.00001	0.00002	0.00002
	-0.00004	-0.00003	-0.00003
	0.00192	0.00212	0.00284

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00186	0.00209	0.00291
	-0.00002	-0.00001	-0.00001
	0.00003	0.00004	0.00004
	0.00124	0.00147	0.00229

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00106	0.00146	0.00279
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00177	0.00216	0.00349

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7L	0.00099	0.00143	0.00288
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00015	0.00059	0.00204

DFFNRX4H7L

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX4H7L	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX4H7L	0.00108	0.00083	0.00108	0.17326	0.17164

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX4H7L	0.00000	10.17070	12.48850

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7L	CKN->Q (FR)	RN	0.14478	0.29569	0.67240

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7L	CKN->Q (FF)	RN	0.10919	0.22740	0.50481
	RN->Q (FF)	(CKN * D)	0.08553	0.19440	0.45569
	RN->Q (FF)	(CKN * !D)	0.08481	0.19346	0.45423
	RN->Q (FF)	(!CKN * D)	0.09360	0.20303	0.46553
	RN->Q (FF)	(!CKN * !D)	0.09360	0.20303	0.46548

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7L	CKN->QN (FR)	RN	0.07620	0.23748	0.61820
	RN->QN (FR)	(CKN * D)	0.05448	0.20323	0.56466
	RN->QN (FR)	(CKN * !D)	0.05411	0.20236	0.56281
	RN->QN (FR)	(!CKN * D)	0.05944	0.21299	0.57798
	RN->QN (FR)	(!CKN * !D)	0.05944	0.21297	0.57728

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7L	CKN->QN (FF)	RN	0.09635	0.24072	0.53636

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX4H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7L	**hold**	**CKN (F)**	0.02040	0.06484	0.15273
	setup	**CKN (F)**	-0.10930	-0.01645	0.04670

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7L	**hold**	**CKN (F)**	-0.09855	-0.02053	0.04177
	setup	**CKN (F)**	-0.02134	0.05204	0.16536

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7L	**recovery**	**CKN (F)**	-0.12806	-0.02883	0.02707
	removal	**CKN (F)**	0.04365	0.08833	0.16895

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX4H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7L	CKN	RN	0.00381	0.00410	0.00510
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00000	0.00002	0.00002
	CKN	RN	0.00335	0.00364	0.00464

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7L	CKN	RN	0.00352	0.00376	0.00465
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00002	-0.00002	0.00000
	CKN	RN	0.00322	0.00347	0.00435
	RN	(CKN * D)	0.00264	0.00292	0.00374
	RN	(CKN * D)	0.00000	0.00002	0.00005
	RN	(CKN * D)	-0.00005	-0.00003	-0.00001
	RN	(CKN * D)	0.00234	0.00262	0.00349
	RN	(CKN * !D)	0.00264	0.00292	0.00374
	RN	(CKN * !D)	-0.00001	0.00002	0.00005
	RN	(CKN * !D)	-0.00005	-0.00003	-0.00002
	RN	(CKN * !D)	0.00234	0.00261	0.00343
	RN	(!CKN * D)	0.00344	0.00370	0.00455
	RN	(!CKN * D)	0.00001	0.00001	0.00004
	RN	(!CKN * D)	-0.00001	-0.00000	0.00002
	RN	(!CKN * D)	0.00310	0.00336	0.00421
	RN	(!CKN * !D)	0.00344	0.00370	0.00455
	RN	(!CKN * !D)	-0.00001	0.00001	0.00004
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00002
	RN	(!CKN * !D)	0.00310	0.00336	0.00421

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7L	CKN	RN	0.00352	0.00377	0.00465
	CKN	RN	0.00000	0.00001	0.00002
	CKN	RN	-0.00004	-0.00002	0.00000
	CKN	RN	0.00322	0.00347	0.00436
	RN	(CKN * D)	0.00263	0.00292	0.00374
	RN	(CKN * D)	-0.00001	0.00002	0.00006
	RN	(CKN * D)	-0.00004	-0.00003	0.00002
	RN	(CKN * D)	0.00229	0.00262	0.00347
	RN	(CKN * !D)	0.00265	0.00293	0.00374
	RN	(CKN * !D)	-0.00002	0.00002	0.00005
	RN	(CKN * !D)	-0.00006	-0.00003	-0.00002
	RN	(CKN * !D)	0.00234	0.00262	0.00343
	RN	(!CKN * D)	0.00344	0.00371	0.00455
	RN	(!CKN * D)	-0.00002	0.00001	0.00004
	RN	(!CKN * D)	-0.00004	-0.00000	0.00001
	RN	(!CKN * D)	0.00311	0.00337	0.00423
	RN	(!CKN * !D)	0.00344	0.00370	0.00455
	RN	(!CKN * !D)	-0.00002	0.00001	0.00004
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00002
	RN	(!CKN * !D)	0.00310	0.00337	0.00421

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7L	CKN	RN	0.00380	0.00410	0.00509
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00000	0.00002	0.00004
	CKN	RN	0.00335	0.00364	0.00463

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00372	0.00407	0.00541
	0.00000	0.00000	0.00001
	0.00003	0.00005	0.00007
	0.00435	0.00473	0.00607

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00435	0.00470	0.00598
	0.00000	0.00000	0.00002
	0.00003	0.00003	0.00004
	0.00354	0.00390	0.00518

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00133	0.00154	0.00232
	0.00002	0.00002	0.00003
	-0.00004	-0.00003	-0.00003
	0.00199	0.00220	0.00298

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00194	0.00219	0.00308
	-0.00003	-0.00002	-0.00002
	0.00003	0.00003	0.00004
	0.00128	0.00153	0.00242

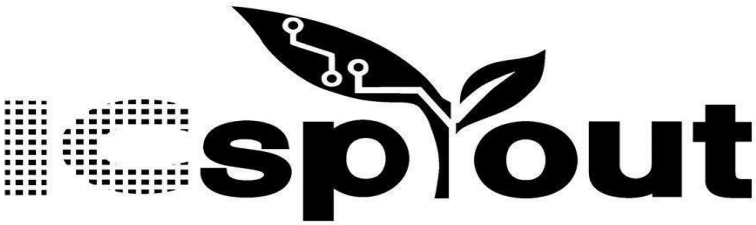
Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00109	0.00149	0.00281
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00178	0.00218	0.00351

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7L	0.00099	0.00143	0.00287
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00015	0.00059	0.00204

DFFNSRQX1H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
CKN	D	RN	SN	Q
F	0	1	1	0
F	1	1	1	1
x	x	x	0	1
x	x	0	1	0
x	x	1	1	IQ

Footprint

Cell Name	Area
DFFNSRQX1H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	RN	SN	Q
DFFNSRQX1H7L	0.00088	0.00068	0.00071	0.00077	0.06134

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSRQX1H7L	0.00000	5.02054	7.12243

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSRQX1H7L	CKN->Q (FR)	(RN * SN)	0.15432	0.31178	0.69426
	SN->Q (FR)	(CKN * D * RN)	0.08160	0.23829	0.62142
	SN->Q (FR)	(CKN * D * !RN)	0.08532	0.24535	0.63943
	SN->Q (FR)	(CKN * !D * RN)	0.08733	0.24748	0.63954
	SN->Q (FR)	(CKN * !D * !RN)	0.09529	0.25849	0.66097
	SN->Q (FR)	(!CKN * D * RN)	0.09306	0.25537	0.65491
	SN->Q (FR)	(!CKN * D * !RN)	0.09725	0.26121	0.66636
	SN->Q (FR)	(!CKN * !D * RN)	0.09305	0.25537	0.65486
	SN->Q (FR)	(!CKN * !D * !RN)	0.09725	0.26120	0.66623

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSRQX1H7L	CKN->Q (FF)	(RN * SN)	0.11299	0.23084	0.50392
	RN->Q (FF)	(CKN * D * SN)	0.10754	0.21642	0.47582
	RN->Q (FF)	(CKN * !D * SN)	0.10207	0.21066	0.46915
	RN->Q (FF)	(!CKN * D * SN)	0.11815	0.22809	0.48783
	RN->Q (FF)	(!CKN * !D * SN)	0.11816	0.22809	0.48783

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX1H7L	**hold**	**CKN (F)**	0.01469	0.05720	0.14125
	setup	**CKN (F)**	-0.10095	0.00592	0.07533

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX1H7L	**hold**	**CKN (F)**	-0.11502	-0.02794	0.03832
	setup	**CKN (F)**	-0.01594	0.06328	0.17633

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNSRQX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX1H7L	**recovery**	**CKN (F)**	-0.10982	-0.00668	0.04708
	removal	**CKN (F)**	0.04526	0.09164	0.17919

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX1H7L	recovery	CKN (F)	-0.08854	0.00291	0.10078
	removal	CKN (F)	0.08746	0.15049	0.28737
	hold	RN (R)	-0.16768	-0.08849	-0.04404
	setup	RN (R)	0.08000	0.12847	0.22007

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSRQX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

DFFNSRQX1H7L	**CKN**	**(RN * SN)**	0.00490	0.00525	0.00638
	CKN	**(RN * SN)**	-0.00006	-0.00004	-0.00002
	CKN	**(RN * SN)**	0.00003	0.00005	0.00010
	CKN	**(RN * SN)**	0.00405	0.00439	0.00550
	SN	**(CKN * D * RN)**	0.00267	0.00288	0.00350
	SN	**(CKN * D * RN)**	-0.00007	-0.00006	-0.00006
	SN	**(CKN * D * RN)**	0.00007	0.00011	0.00015
	SN	**(CKN * D * RN)**	0.00195	0.00218	0.00282
	SN	**(CKN * D * !RN)**	0.00363	0.00386	0.00466
	SN	**(CKN * D * !RN)**	-0.00017	-0.00014	-0.00013
	SN	**(CKN * D * !RN)**	0.00014	0.00018	0.00021
	SN	**(CKN * D * !RN)**	0.00270	0.00298	0.00377
	SN	**(CKN * !D * RN)**	0.00275	0.00296	0.00362
	SN	**(CKN * !D * RN)**	-0.00020	-0.00007	-0.00004
	SN	**(CKN * !D * RN)**	0.00012	0.00012	0.00016
	SN	**(CKN * !D * RN)**	0.00203	0.00225	0.00289
	SN	**(CKN * !D * !RN)**	0.00302	0.00328	0.00402
	SN	**(CKN * !D * !RN)**	-0.00012	-0.00009	-0.00005
	SN	**(CKN * !D * !RN)**	0.00017	0.00017	0.00018
	SN	**(CKN * !D * !RN)**	0.00223	0.00245	0.00318
	SN	**(!CKN * D * RN)**	0.00396	0.00419	0.00494
	SN	**(!CKN * D * RN)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * D * RN)**	0.00005	0.00006	0.00009
	SN	**(!CKN * D * RN)**	0.00336	0.00359	0.00434
	SN	**(!CKN * D * !RN)**	0.00401	0.00427	0.00513
	SN	**(!CKN * D * !RN)**	-0.00006	-0.00003	0.00000
	SN	**(!CKN * D * !RN)**	0.00003	0.00009	0.00015
	SN	**(!CKN * D * !RN)**	0.00329	0.00359	0.00446
	SN	**(!CKN * !D * RN)**	0.00396	0.00419	0.00494
	SN	**(!CKN * !D * RN)**	-0.00002	-0.00002	-0.00001
	SN	**(!CKN * !D * RN)**	0.00006	0.00006	0.00006
	SN	**(!CKN * !D * RN)**	0.00336	0.00359	0.00434
	SN	**(!CKN * !D * !RN)**	0.00401	0.00427	0.00514
	SN	**(!CKN * !D * !RN)**	-0.00008	-0.00003	-0.00002
	SN	**(!CKN * !D * !RN)**	0.00006	0.00009	0.00014
	SN	**(!CKN * !D * !RN)**	0.00330	0.00359	0.00446

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSRQX1H7L	CKN	(RN * SN)	0.00413	0.00445	0.00554
	CKN	(RN * SN)	0.00002	0.00004	0.00007
	CKN	(RN * SN)	-0.00007	-0.00005	-0.00003
	CKN	(RN * SN)	0.00373	0.00405	0.00517
	RN	(CKN * D * SN)	0.00304	0.00335	0.00434
	RN	(CKN * D * SN)	0.00005	0.00007	0.00010
	RN	(CKN * D * SN)	-0.00011	-0.00007	-0.00005
	RN	(CKN * D * SN)	0.00282	0.00314	0.00414
	RN	(CKN * !D * SN)	0.00301	0.00331	0.00428
	RN	(CKN * !D * SN)	0.00004	0.00007	0.00009
	RN	(CKN * !D * SN)	-0.00007	-0.00007	-0.00005
	RN	(CKN * !D * SN)	0.00277	0.00308	0.00410
	RN	(!CKN * D * SN)	0.00418	0.00448	0.00545
	RN	(!CKN * D * SN)	-0.00001	0.00003	0.00007
	RN	(!CKN * D * SN)	-0.00003	-0.00001	0.00002
	RN	(!CKN * D * SN)	0.00383	0.00415	0.00513
	RN	(!CKN * !D * SN)	0.00418	0.00449	0.00545
	RN	(!CKN * !D * SN)	-0.00001	0.00003	0.00007
	RN	(!CKN * !D * SN)	-0.00003	-0.00001	0.00002
	RN	(!CKN * !D * SN)	0.00383	0.00415	0.00513

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00274	0.00298	0.00387
	0.00003	0.00003	0.00004
	-0.00001	-0.00001	-0.00000
	0.00347	0.00371	0.00460

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00383	0.00410	0.00510
	0.00001	0.00002	0.00003
	0.00000	0.00001	0.00001
	0.00318	0.00346	0.00447

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00116	0.00130	0.00183
	0.00002	0.00002	0.00002
	-0.00003	-0.00003	-0.00002
	0.00166	0.00180	0.00232

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00155	0.00171	0.00226
	-0.00002	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00105	0.00120	0.00176

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00077	0.00103	0.00192
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00118	0.00145	0.00233

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00115	0.00145	0.00240
	0.00000	0.00000	0.00000
	0.00010	0.00010	0.00010
	0.00048	0.00077	0.00174

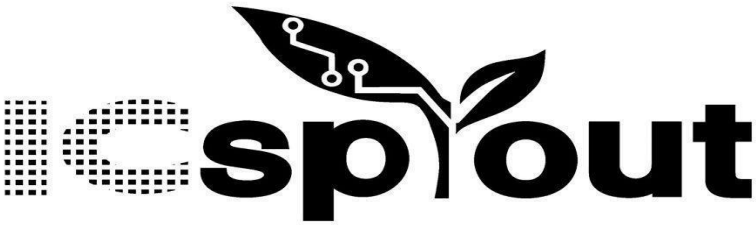
Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00034	0.00034	0.00035
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00089	0.00089	0.00090

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX1H7L	0.00018	0.00019	0.00020
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00019	-0.00018	-0.00017

DFFNSRQX2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
CKN	D	RN	SN	Q
F	0	1	1	0
F	1	1	1	1
x	x	x	0	1
x	x	0	1	0
x	x	1	1	IQ

Footprint

Cell Name	Area
DFFNSRQX2H7L	8.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	RN	SN	Q
DFFNSRQX2H7L	0.00088	0.00068	0.00073	0.00077	0.09068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSRQX2H7L	0.00000	5.63504	8.02822

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSRQX2H7L	CKN->Q (FR)	(RN * SN)	0.15169	0.30966	0.69178
	SN->Q (FR)	(CKN * D * RN)	0.08163	0.23908	0.62273
	SN->Q (FR)	(CKN * D * !RN)	0.08523	0.24594	0.63946
	SN->Q (FR)	(CKN * !D * RN)	0.08715	0.24799	0.63983
	SN->Q (FR)	(CKN * !D * !RN)	0.09479	0.25867	0.66089
	SN->Q (FR)	(!CKN * D * RN)	0.09330	0.25647	0.65568
	SN->Q (FR)	(!CKN * D * !RN)	0.09736	0.26220	0.66701
	SN->Q (FR)	(!CKN * !D * RN)	0.09330	0.25646	0.65532
	SN->Q (FR)	(!CKN * !D * !RN)	0.09736	0.26220	0.66702

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSRQX2H7L	CKN->Q (FF)	(RN * SN)	0.11658	0.23646	0.51122
	RN->Q (FF)	(CKN * D * SN)	0.11482	0.22804	0.49449
	RN->Q (FF)	(CKN * !D * SN)	0.10928	0.22220	0.48751
	RN->Q (FF)	(!CKN * D * SN)	0.12682	0.24095	0.50799
	RN->Q (FF)	(!CKN * !D * SN)	0.12682	0.24095	0.50799

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX2H7L	**hold**	**CKN (F)**	0.01454	0.05728	0.13853
	setup	**CKN (F)**	-0.10200	-0.00084	0.06925

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX2H7L	**hold**	**CKN (F)**	-0.11629	-0.02859	0.03960
	setup	**CKN (F)**	-0.01619	0.06273	0.17566

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNSRQX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX2H7L	**recovery**	**CKN (F)**	-0.11519	-0.01535	0.03957
	removal	**CKN (F)**	0.04903	0.09366	0.18191

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSRQX2H7L	recovery	CKN (F)	-0.08555	0.00257	0.09913
	removal	CKN (F)	0.08709	0.14835	0.28134
	hold	RN (R)	-0.17395	-0.09145	-0.04604
	setup	RN (R)	0.08307	0.12978	0.22084

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSRQX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

DFFNSRQX2H7L	**CKN**	**(RN * SN)**	0.00518	0.00552	0.00665
	CKN	**(RN * SN)**	-0.00007	-0.00005	-0.00001
	CKN	**(RN * SN)**	0.00002	0.00006	0.00012
	CKN	**(RN * SN)**	0.00426	0.00464	0.00577
	SN	**(CKN * D * RN)**	0.00295	0.00316	0.00384
	SN	**(CKN * D * RN)**	-0.00013	-0.00008	-0.00003
	SN	**(CKN * D * RN)**	0.00006	0.00012	0.00016
	SN	**(CKN * D * RN)**	0.00221	0.00244	0.00308
	SN	**(CKN * D * !RN)**	0.00391	0.00416	0.00497
	SN	**(CKN * D * !RN)**	-0.00023	-0.00016	-0.00013
	SN	**(CKN * D * !RN)**	0.00018	0.00018	0.00019
	SN	**(CKN * D * !RN)**	0.00299	0.00324	0.00406
	SN	**(CKN * !D * RN)**	0.00019	0.00323	0.00484
	SN	**(CKN * !D * RN)**	-0.00752	0.00001	0.01232
	SN	**(CKN * !D * RN)**	-0.00025	0.00013	0.00074
	SN	**(CKN * !D * RN)**	-0.00263	0.00258	0.01070
	SN	**(CKN * !D * !RN)**	0.00333	0.00356	0.00432
	SN	**(CKN * !D * !RN)**	-0.00012	-0.00011	-0.00008
	SN	**(CKN * !D * !RN)**	0.00014	0.00018	0.00018
	SN	**(CKN * !D * !RN)**	0.00249	0.00271	0.00347
	SN	**(!CKN * D * RN)**	0.00425	0.00448	0.00525
	SN	**(!CKN * D * RN)**	-0.00008	-0.00004	-0.00004
	SN	**(!CKN * D * RN)**	0.00006	0.00007	0.00011
	SN	**(!CKN * D * RN)**	0.00359	0.00385	0.00463
	SN	**(!CKN * D * !RN)**	0.00431	0.00457	0.00546
	SN	**(!CKN * D * !RN)**	-0.00009	-0.00005	0.00001
	SN	**(!CKN * D * !RN)**	0.00009	0.00010	0.00010
	SN	**(!CKN * D * !RN)**	0.00360	0.00387	0.00476
	SN	**(!CKN * !D * RN)**	0.00425	0.00448	0.00525
	SN	**(!CKN * !D * RN)**	-0.00004	-0.00004	0.00001
	SN	**(!CKN * !D * RN)**	0.00001	0.00006	0.00012
	SN	**(!CKN * !D * RN)**	0.00359	0.00386	0.00463
	SN	**(!CKN * !D * !RN)**	0.00427	0.00457	0.00547
	SN	**(!CKN * !D * !RN)**	-0.00009	-0.00005	0.00001
	SN	**(!CKN * !D * !RN)**	0.00009	0.00010	0.00013
	SN	**(!CKN * !D * !RN)**	0.00360	0.00386	0.00476

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSRQX2H7L	CKN	(RN * SN)	0.00446	0.00478	0.00588
	CKN	(RN * SN)	0.00001	0.00005	0.00008
	CKN	(RN * SN)	-0.00008	-0.00006	-0.00002
	CKN	(RN * SN)	0.00409	0.00440	0.00552
	RN	(CKN * D * SN)	0.00339	0.00370	0.00463
	RN	(CKN * D * SN)	0.00004	0.00009	0.00014
	RN	(CKN * D * SN)	-0.00022	-0.00009	-0.00006
	RN	(CKN * D * SN)	0.00319	0.00351	0.00457
	RN	(CKN * !D * SN)	0.00338	0.00365	0.00457
	RN	(CKN * !D * SN)	0.00003	0.00008	0.00011
	RN	(CKN * !D * SN)	-0.00012	-0.00008	-0.00006
	RN	(CKN * !D * SN)	0.00314	0.00344	0.00436
	RN	(!CKN * D * SN)	0.00451	0.00481	0.00575
	RN	(!CKN * D * SN)	0.00004	0.00004	0.00008
	RN	(!CKN * D * SN)	-0.00002	-0.00002	-0.00000
	RN	(!CKN * D * SN)	0.00422	0.00450	0.00545
	RN	(!CKN * !D * SN)	0.00451	0.00481	0.00575
	RN	(!CKN * !D * SN)	0.00002	0.00004	0.00008
	RN	(!CKN * !D * SN)	-0.00002	-0.00002	0.00000
	RN	(!CKN * !D * SN)	0.00419	0.00450	0.00543

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00275	0.00299	0.00388
	0.00002	0.00003	0.00003
	-0.00001	-0.00001	-0.00000
	0.00348	0.00372	0.00461

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00384	0.00412	0.00512
	0.00001	0.00002	0.00003
	0.00000	0.00001	0.00001
	0.00320	0.00348	0.00448

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00116	0.00131	0.00183
	0.00001	0.00002	0.00002
	-0.00003	-0.00003	-0.00002
	0.00166	0.00180	0.00231

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00146	0.00163	0.00223
	-0.00002	-0.00002	-0.00001
	0.00002	0.00003	0.00003
	0.00096	0.00113	0.00173

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00079	0.00104	0.00187
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00122	0.00146	0.00229

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00118	0.00145	0.00235
	0.00000	0.00000	0.00000
	0.00010	0.00010	0.00010
	0.00050	0.00076	0.00167

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00034	0.00034	0.00035
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00090	0.00090	0.00091

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSRQX2H7L	0.00019	0.00019	0.00021
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00019	-0.00018	-0.00016

DFFNSX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX0P5H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX0P5H7L	0.00101	0.00079	0.00080	0.06363	0.06352

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX0P5H7L	0.00000	5.23856	7.54944

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7L	CKN->Q (FR)	SN	0.11133	0.26455	0.64100
	SN->Q (FR)	(CKN * D)	0.07286	0.22910	0.61337
	SN->Q (FR)	(CKN * !D)	0.07670	0.23570	0.62623
	SN->Q (FR)	(!CKN * D)	0.08266	0.24409	0.64364
	SN->Q (FR)	(!CKN * !D)	0.08266	0.24410	0.64407

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7L	CKN->Q (FF)	SN	0.09797	0.21761	0.49920

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7L	CKN->QN (FR)	SN	0.07158	0.23325	0.61451

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7L	CKN->QN (FF)	SN	0.08319	0.21120	0.49684
	SN->QN (FF)	(CKN * D)	0.04548	0.17322	0.46958
	SN->QN (FF)	(CKN * !D)	0.04876	0.17967	0.48169
	SN->QN (FF)	(!CKN * D)	0.05290	0.19227	0.51146
	SN->QN (FF)	(!CKN * !D)	0.05290	0.19227	0.51146

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7L	**hold**	**CKN (F)**	0.01486	0.05568	0.13945
	setup	**CKN (F)**	-0.10545	-0.02016	0.04493

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7L	**hold**	**CKN (F)**	-0.11528	-0.03074	0.03190
	setup	**CKN (F)**	-0.01478	0.05705	0.16629

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7L	**recovery**	**CKN (F)**	-0.08827	-0.01244	0.08417
	removal	**CKN (F)**	0.07520	0.13640	0.26843

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7L	CKN	SN	0.00252	0.00273	0.00341
	CKN	SN	-0.00003	-0.00002	0.00000
	CKN	SN	0.00001	0.00001	0.00002
	CKN	SN	0.00208	0.00230	0.00298
	SN	(CKN * D)	0.00136	0.00152	0.00207
	SN	(CKN * D)	-0.00003	-0.00003	-0.00001
	SN	(CKN * D)	0.00002	0.00003	0.00006
	SN	(CKN * D)	0.00100	0.00117	0.00174
	SN	(CKN * !D)	0.00140	0.00158	0.00214
	SN	(CKN * !D)	-0.00005	-0.00003	-0.00001
	SN	(CKN * !D)	0.00002	0.00004	0.00007
	SN	(CKN * !D)	0.00106	0.00122	0.00178
	SN	(!CKN * D)	0.00199	0.00216	0.00284
	SN	(!CKN * D)	-0.00001	-0.00001	0.00001
	SN	(!CKN * D)	-0.00001	0.00001	0.00003
	SN	(!CKN * D)	0.00169	0.00186	0.00254
	SN	(!CKN * !D)	0.00199	0.00216	0.00284
	SN	(!CKN * !D)	-0.00003	-0.00001	0.00001
	SN	(!CKN * !D)	-0.00001	0.00001	0.00003
	SN	(!CKN * !D)	0.00169	0.00186	0.00254

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7L	CKN	SN	0.00234	0.00254	0.00320
	CKN	SN	0.00000	0.00002	0.00003
	CKN	SN	-0.00002	-0.00001	-0.00000
	CKN	SN	0.00204	0.00225	0.00292

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7L	CKN	SN	0.00232	0.00254	0.00321
	CKN	SN	0.00000	0.00002	0.00004
	CKN	SN	-0.00002	-0.00001	0.00001
	CKN	SN	0.00204	0.00226	0.00293

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7L	CKN	SN	0.00251	0.00273	0.00341
	CKN	SN	-0.00003	-0.00001	0.00000
	CKN	SN	0.00000	0.00001	0.00002
	CKN	SN	0.00209	0.00230	0.00298
	SN	(CKN * D)	0.00137	0.00152	0.00207
	SN	(CKN * D)	-0.00004	-0.00003	-0.00001
	SN	(CKN * D)	0.00002	0.00003	0.00005
	SN	(CKN * D)	0.00102	0.00117	0.00173
	SN	(CKN * !D)	0.00142	0.00158	0.00214
	SN	(CKN * !D)	-0.00006	-0.00003	-0.00002
	SN	(CKN * !D)	0.00002	0.00004	0.00006
	SN	(CKN * !D)	0.00106	0.00122	0.00178
	SN	(!CKN * D)	0.00199	0.00216	0.00283
	SN	(!CKN * D)	-0.00003	-0.00001	-0.00000
	SN	(!CKN * D)	-0.00000	0.00001	0.00003
	SN	(!CKN * D)	0.00167	0.00186	0.00254
	SN	(!CKN * !D)	0.00199	0.00216	0.00283
	SN	(!CKN * !D)	-0.00003	-0.00001	0.00001
	SN	(!CKN * !D)	-0.00000	0.00001	0.00003
	SN	(!CKN * !D)	0.00167	0.00186	0.00254

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00304	0.00333	0.00438
	0.00003	0.00004	0.00004
	-0.00002	-0.00001	0.00000
	0.00387	0.00416	0.00522

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00375	0.00409	0.00527
	0.00001	0.00002	0.00003
	0.00000	0.00001	0.00002
	0.00306	0.00339	0.00457

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00123	0.00141	0.00208
	0.00002	0.00002	0.00003
	-0.00003	-0.00003	-0.00003
	0.00180	0.00199	0.00266

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00172	0.00193	0.00267
	-0.00003	-0.00002	-0.00002
	0.00003	0.00003	0.00003
	0.00113	0.00134	0.00209

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00042	0.00042	0.00043
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00108	0.00108	0.00108

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7L	0.00018	0.00019	0.00020
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

DFFNSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX1H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX1H7L	0.00101	0.00080	0.00080	0.07482	0.07516

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX1H7L	0.00000	5.49600	7.96388

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7L	CKN->Q (FR)	SN	0.10916	0.26165	0.63622
	SN->Q (FR)	(CKN * D)	0.07267	0.22845	0.61187
	SN->Q (FR)	(CKN * !D)	0.07665	0.23523	0.62472
	SN->Q (FR)	(!CKN * D)	0.08296	0.24419	0.64297
	SN->Q (FR)	(!CKN * !D)	0.08296	0.24419	0.64297

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7L	CKN->Q (FF)	SN	0.09680	0.21640	0.49762

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7L	CKN->QN (FR)	SN	0.07037	0.23241	0.61374

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7L	CKN->QN (FF)	SN	0.08185	0.21070	0.49741
	SN->QN (FF)	(CKN * D)	0.04572	0.17511	0.47380
	SN->QN (FF)	(CKN * !D)	0.04912	0.18174	0.48644
	SN->QN (FF)	(!CKN * D)	0.05364	0.19509	0.51757
	SN->QN (FF)	(!CKN * !D)	0.05364	0.19509	0.51755

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7L	**hold**	**CKN (F)**	0.01486	0.05556	0.13553
	setup	**CKN (F)**	-0.10568	-0.02011	0.04524

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7L	**hold**	**CKN (F)**	-0.11363	-0.03056	0.03205
	setup	**CKN (F)**	-0.01720	0.05716	0.16622

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7L	**recovery**	**CKN (F)**	-0.08808	-0.01059	0.09361
	removal	**CKN (F)**	0.07520	0.13599	0.26843

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7L	CKN	SN	0.00259	0.00280	0.00348
	CKN	SN	-0.00002	-0.00002	-0.00000
	CKN	SN	0.00001	0.00002	0.00005
	CKN	SN	0.00215	0.00237	0.00306
	SN	(CKN * D)	0.00143	0.00160	0.00220
	SN	(CKN * D)	-0.00005	-0.00003	-0.00000
	SN	(CKN * D)	0.00002	0.00003	0.00004
	SN	(CKN * D)	0.00108	0.00125	0.00186
	SN	(CKN * !D)	0.00150	0.00166	0.00226
	SN	(CKN * !D)	-0.00005	-0.00003	-0.00001
	SN	(CKN * !D)	0.00002	0.00004	0.00006
	SN	(CKN * !D)	0.00113	0.00129	0.00190
	SN	(!CKN * D)	0.00208	0.00225	0.00299
	SN	(!CKN * D)	-0.00001	-0.00001	-0.00001
	SN	(!CKN * D)	0.00001	0.00002	0.00002
	SN	(!CKN * D)	0.00178	0.00195	0.00269
	SN	(!CKN * !D)	0.00208	0.00225	0.00299
	SN	(!CKN * !D)	-0.00001	-0.00001	-0.00001
	SN	(!CKN * !D)	0.00001	0.00002	0.00002
	SN	(!CKN * !D)	0.00178	0.00195	0.00269

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7L	CKN	SN	0.00239	0.00261	0.00329
	CKN	SN	0.00001	0.00002	0.00004
	CKN	SN	-0.00002	-0.00001	-0.00001
	CKN	SN	0.00212	0.00233	0.00300

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7L	CKN	SN	0.00239	0.00262	0.00329
	CKN	SN	0.00000	0.00002	0.00004
	CKN	SN	-0.00002	-0.00001	0.00000
	CKN	SN	0.00213	0.00233	0.00301

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7L	CKN	SN	0.00258	0.00280	0.00348
	CKN	SN	-0.00002	-0.00002	0.00000
	CKN	SN	0.00000	0.00001	0.00004
	CKN	SN	0.00215	0.00237	0.00305
	SN	(CKN * D)	0.00143	0.00159	0.00219
	SN	(CKN * D)	-0.00004	-0.00003	-0.00001
	SN	(CKN * D)	0.00002	0.00003	0.00005
	SN	(CKN * D)	0.00108	0.00125	0.00185
	SN	(CKN * !D)	0.00149	0.00165	0.00226
	SN	(CKN * !D)	-0.00003	-0.00003	-0.00001
	SN	(CKN * !D)	0.00003	0.00004	0.00007
	SN	(CKN * !D)	0.00113	0.00129	0.00190
	SN	(!CKN * D)	0.00206	0.00225	0.00299
	SN	(!CKN * D)	-0.00003	-0.00001	0.00001
	SN	(!CKN * D)	-0.00000	0.00001	0.00003
	SN	(!CKN * D)	0.00178	0.00195	0.00269
	SN	(!CKN * !D)	0.00208	0.00225	0.00299
	SN	(!CKN * !D)	-0.00003	-0.00001	0.00000
	SN	(!CKN * !D)	-0.00000	0.00002	0.00003
	SN	(!CKN * !D)	0.00177	0.00195	0.00269

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00307	0.00336	0.00441
	0.00003	0.00003	0.00004
	-0.00002	-0.00001	-0.00000
	0.00389	0.00419	0.00524

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00380	0.00413	0.00531
	-0.00000	0.00001	0.00002
	0.00000	0.00002	0.00002
	0.00309	0.00343	0.00460

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00125	0.00144	0.00211
	0.00001	0.00002	0.00002
	-0.00003	-0.00003	-0.00002
	0.00182	0.00201	0.00269

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00175	0.00195	0.00270
	-0.00002	-0.00002	-0.00001
	0.00003	0.00003	0.00003
	0.00116	0.00137	0.00212

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00043	0.00044	0.00045
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00110	0.00110	0.00111

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7L	0.00018	0.00019	0.00020
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

DFFNSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX2H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX2H7L	0.00110	0.00080	0.00080	0.08695	0.08648

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX2H7L	0.00000	5.97887	8.60974

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7L	CKN->Q (FR)	SN	0.10193	0.25351	0.62617
	SN->Q (FR)	(CKN * D)	0.07410	0.23085	0.61664
	SN->Q (FR)	(CKN * !D)	0.07846	0.23794	0.62993
	SN->Q (FR)	(!CKN * D)	0.08532	0.24756	0.64928
	SN->Q (FR)	(!CKN * !D)	0.08532	0.24755	0.64892

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7L	CKN->Q (FF)	SN	0.09266	0.21162	0.49180

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7L	CKN->QN (FR)	SN	0.06628	0.22764	0.60630

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7L	CKN->QN (FF)	SN	0.07476	0.20186	0.48456
	SN->QN (FF)	(CKN * D)	0.04650	0.17722	0.47731
	SN->QN (FF)	(CKN * !D)	0.05022	0.18410	0.49001
	SN->QN (FF)	(!CKN * D)	0.05516	0.19812	0.52194
	SN->QN (FF)	(!CKN * !D)	0.05516	0.19813	0.52191

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7L	**hold**	**CKN (F)**	0.01064	0.04983	0.12707
	setup	**CKN (F)**	-0.09666	-0.01431	0.05040

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7L	**hold**	**CKN (F)**	-0.11770	-0.03370	0.02955
	setup	**CKN (F)**	-0.00869	0.06178	0.17292

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7L	**recovery**	**CKN (F)**	-0.08577	-0.00322	0.11794
	removal	**CKN (F)**	0.07016	0.12894	0.25429

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7L	CKN	SN	0.00274	0.00299	0.00379
	CKN	SN	-0.00003	-0.00002	0.00000
	CKN	SN	0.00001	0.00001	0.00005
	CKN	SN	0.00226	0.00253	0.00334
	SN	(CKN * D)	0.00154	0.00171	0.00236
	SN	(CKN * D)	-0.00003	-0.00003	-0.00003
	SN	(CKN * D)	0.00003	0.00004	0.00004
	SN	(CKN * D)	0.00119	0.00136	0.00202
	SN	(CKN * !D)	0.00160	0.00177	0.00243
	SN	(CKN * !D)	-0.00006	-0.00003	0.00005
	SN	(CKN * !D)	0.00004	0.00005	0.00008
	SN	(CKN * !D)	0.00123	0.00141	0.00207
	SN	(!CKN * D)	0.00222	0.00240	0.00320
	SN	(!CKN * D)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D)	-0.00001	0.00002	0.00004
	SN	(!CKN * D)	0.00191	0.00209	0.00290
	SN	(!CKN * !D)	0.00222	0.00240	0.00320
	SN	(!CKN * !D)	-0.00005	-0.00002	0.00001
	SN	(!CKN * !D)	-0.00001	0.00002	0.00004
	SN	(!CKN * !D)	0.00190	0.00209	0.00290

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7L	CKN	SN	0.00256	0.00281	0.00360
	CKN	SN	0.00000	0.00002	0.00004
	CKN	SN	-0.00002	-0.00001	-0.00000
	CKN	SN	0.00224	0.00249	0.00328

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7L	CKN	SN	0.00257	0.00281	0.00361
	CKN	SN	0.00000	0.00002	0.00004
	CKN	SN	-0.00002	-0.00001	0.00000
	CKN	SN	0.00223	0.00249	0.00332

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7L	CKN	SN	0.00274	0.00299	0.00379
	CKN	SN	-0.00003	-0.00002	0.00000
	CKN	SN	0.00000	0.00001	0.00004
	CKN	SN	0.00228	0.00253	0.00335
	SN	(CKN * D)	0.00154	0.00171	0.00236
	SN	(CKN * D)	-0.00005	-0.00003	-0.00002
	SN	(CKN * D)	0.00002	0.00003	0.00006
	SN	(CKN * D)	0.00119	0.00136	0.00202
	SN	(CKN * !D)	0.00160	0.00177	0.00242
	SN	(CKN * !D)	-0.00004	-0.00003	0.00001
	SN	(CKN * !D)	0.00002	0.00004	0.00005
	SN	(CKN * !D)	0.00124	0.00141	0.00206
	SN	(!CKN * D)	0.00222	0.00240	0.00320
	SN	(!CKN * D)	-0.00004	-0.00002	-0.00000
	SN	(!CKN * D)	0.00001	0.00002	0.00004
	SN	(!CKN * D)	0.00190	0.00209	0.00290
	SN	(!CKN * !D)	0.00222	0.00240	0.00320
	SN	(!CKN * !D)	-0.00004	-0.00002	0.00000
	SN	(!CKN * !D)	-0.00000	0.00002	0.00004
	SN	(!CKN * !D)	0.00190	0.00209	0.00290

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00317	0.00351	0.00477
	0.00001	0.00002	0.00003
	-0.00002	-0.00001	-0.00000
	0.00404	0.00439	0.00565

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00400	0.00439	0.00577
	-0.00001	0.00000	0.00002
	0.00001	0.00002	0.00002
	0.00322	0.00361	0.00499

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00129	0.00149	0.00217
	0.00001	0.00002	0.00002
	-0.00002	-0.00002	-0.00002
	0.00187	0.00206	0.00274

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00178	0.00198	0.00274
	-0.00002	-0.00002	-0.00001
	0.00002	0.00002	0.00003
	0.00120	0.00141	0.00217

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00046	0.00046	0.00047
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00113	0.00113	0.00114

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7L	0.00018	0.00019	0.00020
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

DFFNX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX0P5H7L	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX0P5H7L	0.00094	0.00075	0.06301	0.06369

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX0P5H7L	0.00000	5.80622	6.62160

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7L	CKN->Q (FR)	0.06993	0.22520	0.60023

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7L	CKN->Q (FF)	0.09441	0.21784	0.49447

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7L	CKN->QN (FR)	0.11886	0.26770	0.63735

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7L	CKN->QN (FF)	0.09010	0.20649	0.48573

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7L	**hold**	**CKN (F)**	-0.01212	0.03878	0.11255
	setup	**CKN (F)**	-0.08831	-0.00788	0.04741

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7L	**hold**	**CKN (F)**	-0.10338	-0.02473	0.03861
	setup	**CKN (F)**	-0.03128	0.03557	0.12408

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7L	CKN	0.00225	0.00247	0.00316
	CKN	0.00003	0.00003	0.00003
	CKN	-0.00003	-0.00003	-0.00002
	CKN	0.00196	0.00217	0.00289

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7L	CKN	0.00227	0.00244	0.00306
	CKN	-0.00003	-0.00002	-0.00001
	CKN	0.00003	0.00003	0.00004
	CKN	0.00188	0.00206	0.00267

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7L	CKN	0.00227	0.00245	0.00305
	CKN	-0.00002	-0.00002	-0.00002
	CKN	0.00003	0.00003	0.00003
	CKN	0.00188	0.00206	0.00267

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7L	CKN	0.00225	0.00246	0.00315
	CKN	0.00002	0.00003	0.00003
	CKN	-0.00003	-0.00003	-0.00002
	CKN	0.00196	0.00217	0.00287

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7L	0.00290	0.00324	0.00444
	-0.00005	-0.00001	0.00000
	0.00004	0.00005	0.00006
	0.00341	0.00376	0.00496

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7L	0.00245	0.00279	0.00399
	0.00000	0.00001	0.00005
	-0.00001	0.00000	0.00001
	0.00176	0.00210	0.00329

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7L	0.00105	0.00124	0.00194
	0.00003	0.00004	0.00004
	-0.00005	-0.00004	-0.00003
	0.00164	0.00183	0.00253

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7L	0.00173	0.00195	0.00273
	-0.00004	-0.00004	-0.00003
	0.00003	0.00004	0.00005
	0.00113	0.00135	0.00213

DFFNX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX1H7L	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX1H7L	0.00094	0.00075	0.06676	0.06730

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX1H7L	0.00000	6.03211	6.86407

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7L	CKN->Q (FR)	0.06945	0.22479	0.59982

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7L	CKN->Q (FF)	0.09369	0.21031	0.46803

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7L	CKN->QN (FR)	0.11944	0.26800	0.63756

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7L	CKN->QN (FF)	0.08899	0.19781	0.45614

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX1H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7L	**hold**	**CKN (F)**	-0.01131	0.03929	0.11470
	setup	**CKN (F)**	-0.08792	-0.00777	0.05012

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7L	**hold**	**CKN (F)**	-0.10338	-0.02491	0.03812
	setup	**CKN (F)**	-0.03128	0.03544	0.12380

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7L	CKN	0.00233	0.00255	0.00324
	CKN	0.00003	0.00003	0.00006
	CKN	-0.00003	0.00000	0.00019
	CKN	0.00185	0.00223	0.00297

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7L	CKN	0.00234	0.00254	0.00315
	CKN	-0.00002	-0.00002	-0.00001
	CKN	0.00002	0.00004	0.00006
	CKN	0.00195	0.00215	0.00277

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7L	CKN	0.00234	0.00254	0.00316
	CKN	-0.00003	-0.00002	0.00001
	CKN	0.00002	0.00004	0.00004
	CKN	0.00197	0.00215	0.00278

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7L	CKN	0.00233	0.00255	0.00324
	CKN	0.00001	0.00003	0.00003
	CKN	-0.00004	0.00000	0.00019
	CKN	0.00184	0.00223	0.00296

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7L	0.00294	0.00328	0.00447
	-0.00000	-0.00000	0.00000
	0.00005	0.00005	0.00006
	0.00346	0.00379	0.00499

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7L	0.00248	0.00282	0.00401
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00001
	0.00178	0.00212	0.00331

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7L	0.00106	0.00125	0.00195
	0.00003	0.00003	0.00004
	-0.00004	-0.00004	-0.00003
	0.00165	0.00184	0.00254

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7L	0.00173	0.00195	0.00274
	-0.00004	-0.00003	-0.00003
	0.00003	0.00004	0.00004
	0.00114	0.00136	0.00214

DFFNX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX2H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX2H7L	0.00100	0.00076	0.09449	0.08708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX2H7L	0.00000	6.68117	7.65191

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7L	CKN->Q (FR)	0.06412	0.21913	0.59162

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7L	CKN->Q (FF)	0.08876	0.21946	0.51415

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7L	CKN->QN (FR)	0.11279	0.25979	0.62619

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7L	CKN->QN (FF)	0.08561	0.20131	0.47912

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX2H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7L	**hold**	**CKN (F)**	-0.01705	0.03235	0.10398
	setup	**CKN (F)**	-0.08218	-0.00397	0.05214

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7L	**hold**	**CKN (F)**	-0.10785	-0.02846	0.03145
	setup	**CKN (F)**	-0.02339	0.03915	0.12874

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7L	CKN	0.00252	0.00279	0.00361
	CKN	0.00001	0.00003	0.00006
	CKN	-0.00004	-0.00001	0.00015
	CKN	0.00207	0.00247	0.00330

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7L	CKN	0.00257	0.00278	0.00351
	CKN	-0.00003	-0.00002	-0.00000
	CKN	0.00002	0.00004	0.00006
	CKN	0.00215	0.00237	0.00310

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7L	CKN	0.00257	0.00279	0.00351
	CKN	-0.00004	-0.00002	0.00000
	CKN	0.00003	0.00004	0.00005
	CKN	0.00215	0.00237	0.00310

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7L	CKN	0.00253	0.00279	0.00361
	CKN	0.00003	0.00003	0.00004
	CKN	-0.00004	-0.00001	0.00015
	CKN	0.00206	0.00247	0.00329

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7L	0.00307	0.00346	0.00484
	-0.00005	-0.00001	0.00000
	0.00004	0.00005	0.00006
	0.00362	0.00401	0.00540

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7L	0.00255	0.00298	0.00440
	0.00000	0.00001	0.00005
	-0.00000	0.00005	0.00037
	0.00149	0.00219	0.00366

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7L	0.00113	0.00132	0.00204
	0.00002	0.00003	0.00003
	-0.00004	-0.00004	-0.00003
	0.00171	0.00190	0.00262

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7L	0.00181	0.00204	0.00285
	-0.00003	-0.00003	-0.00002
	0.00003	0.00004	0.00004
	0.00122	0.00145	0.00226

DFFNX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX3H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX3H7L	0.00099	0.00081	0.13339	0.13492

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX3H7L	0.00000	7.95936	8.92483

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7L	CKN->Q (FR)	0.06756	0.22476	0.60078

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7L	CKN->Q (FF)	0.09122	0.21841	0.49869

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7L	CKN->QN (FR)	0.12179	0.26923	0.63818

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7L	CKN->QN (FF)	0.09302	0.21118	0.49352

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX3H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7L	**hold**	**CKN (F)**	-0.01005	0.03812	0.11066
	setup	**CKN (F)**	-0.08740	-0.00957	0.04718

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7L	**hold**	**CKN (F)**	-0.10323	-0.02446	0.03721
	setup	**CKN (F)**	-0.02906	0.03465	0.12396

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7L	CKN	0.00289	0.00316	0.00402
	CKN	0.00001	0.00003	0.00006
	CKN	-0.00006	-0.00003	-0.00002
	CKN	0.00259	0.00286	0.00370

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7L	CKN	0.00291	0.00313	0.00386
	CKN	-0.00003	-0.00002	-0.00001
	CKN	0.00002	0.00004	0.00006
	CKN	0.00249	0.00271	0.00344

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7L	CKN	0.00291	0.00313	0.00387
	CKN	-0.00002	-0.00002	0.00001
	CKN	0.00003	0.00004	0.00004
	CKN	0.00249	0.00272	0.00347

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7L	CKN	0.00290	0.00316	0.00402
	CKN	0.00001	0.00003	0.00006
	CKN	-0.00004	-0.00003	-0.00001
	CKN	0.00259	0.00286	0.00370

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7L	0.00317	0.00358	0.00496
	-0.00000	-0.00000	0.00000
	0.00005	0.00005	0.00005
	0.00372	0.00412	0.00551

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7L	0.00268	0.00308	0.00448
	0.00000	0.00000	0.00000
	-0.00000	-0.00000	0.00001
	0.00194	0.00234	0.00374

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7L	0.00119	0.00142	0.00224
	0.00004	0.00004	0.00004
	-0.00005	-0.00004	-0.00003
	0.00185	0.00207	0.00288

Passive power(pJ) for D falling :

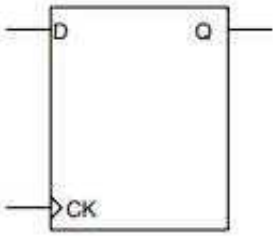
Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7L	0.00192	0.00218	0.00310
	-0.00004	-0.00004	-0.00004
	0.00003	0.00004	0.00005
	0.00127	0.00153	0.00245

DFFQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX0P5H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX0P5H7L	0.00093	0.00074	0.06309

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX0P5H7L	0.00000	5.13789	5.90622

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7L	**CK->Q (RR)**	0.07959	0.21505	0.53491

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7L	**CK->Q (RF)**	0.05926	0.16490	0.39693

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7L	**hold**	**CK (R)**	-0.04143	-0.01706	-0.00213
	setup	**CK (R)**	0.00917	0.02759	0.05447

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7L	**hold**	**CK (R)**	-0.09945	-0.01389	0.03198
	setup	**CK (R)**	-0.00450	0.04649	0.13962

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7L	CK	0.00334	0.00366	0.00481
	CK	0.00004	0.00004	0.00005
	CK	-0.00006	-0.00003	-0.00003
	CK	0.00407	0.00440	0.00552

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7L	CK	0.00305	0.00343	0.00476
	CK	-0.00003	-0.00002	0.00001
	CK	0.00006	0.00006	0.00008
	CK	0.00368	0.00404	0.00537

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7L	0.00167	0.00198	0.00307
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00233	0.00263	0.00373

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7L	0.00347	0.00387	0.00524
	0.00003	0.00004	0.00004
	-0.00001	-0.00000	0.00000
	0.00297	0.00336	0.00473

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7L	0.00111	0.00130	0.00200
	0.00003	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00169	0.00188	0.00258

Passive power(pJ) for D falling :

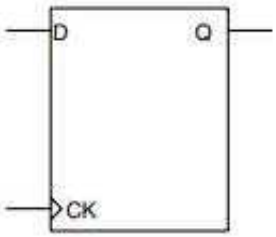
Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7L	0.00167	0.00188	0.00267
	-0.00004	-0.00004	-0.00003
	0.00004	0.00004	0.00005
	0.00108	0.00130	0.00208

DFFQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX1H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX1H7L	0.00101	0.00074	0.07478

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX1H7L	0.00000	5.18639	5.98369

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7L	CK->Q (RR)	0.08122	0.21755	0.53856

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7L	CK->Q (RF)	0.05928	0.16609	0.39968

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX1H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7L	**hold**	**CK (R)**	-0.04380	-0.01724	-0.00091
	setup	**CK (R)**	0.00917	0.02759	0.05447

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7L	**hold**	**CK (R)**	-0.09911	-0.01312	0.03292
	setup	**CK (R)**	-0.00476	0.04687	0.13989

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7L	CK	0.00337	0.00369	0.00485
	CK	0.00004	0.00004	0.00004
	CK	-0.00004	-0.00003	0.00000
	CK	0.00410	0.00441	0.00552

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7L	CK	0.00311	0.00359	0.00920
	CK	-0.00004	-0.00002	-0.00002
	CK	0.00000	0.00005	0.00006
	CK	0.00145	0.00403	0.00540

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7L	0.00166	0.00195	0.00302
	0.00000	0.00000	0.00001
	-0.00000	0.00000	0.00001
	0.00230	0.00261	0.00368

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7L	0.00370	0.00404	0.00524
	-0.00001	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00288	0.00321	0.00441

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7L	0.00113	0.00132	0.00202
	0.00003	0.00003	0.00004
	-0.00004	-0.00004	-0.00003
	0.00170	0.00190	0.00260

Passive power(pJ) for D falling :

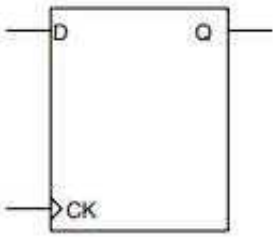
Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7L	0.00167	0.00190	0.00268
	-0.00004	-0.00003	-0.00003
	0.00003	0.00004	0.00004
	0.00109	0.00131	0.00210

DFFQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX2H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX2H7L	0.00094	0.00075	0.08638

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX2H7L	0.00000	5.30312	6.15614

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7L	CK->Q (RR)	0.08182	0.21877	0.54013

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7L	CK->Q (RF)	0.06024	0.16839	0.40392

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX2H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7L	**hold**	**CK (R)**	-0.04394	-0.01735	-0.00091
	setup	**CK (R)**	0.00917	0.02766	0.05263

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7L	**hold**	**CK (R)**	-0.09754	-0.01256	0.03152
	setup	**CK (R)**	-0.00484	0.04652	0.14021

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7L	CK	0.00352	0.00384	0.00505
	CK	0.00004	0.00004	0.00004
	CK	-0.00006	-0.00003	-0.00003
	CK	0.00425	0.00457	0.00568

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7L	CK	0.00327	0.00364	0.00498
	CK	-0.00004	-0.00001	0.00002
	CK	0.00005	0.00006	0.00006
	CK	0.00390	0.00426	0.00560

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7L	0.00166	0.00195	0.00302
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00231	0.00262	0.00369

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7L	0.00352	0.00390	0.00525
	0.00003	0.00004	0.00005
	-0.00001	-0.00000	0.00000
	0.00300	0.00339	0.00473

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7L	0.00112	0.00131	0.00202
	0.00002	0.00003	0.00003
	-0.00005	-0.00005	-0.00004
	0.00170	0.00190	0.00260

Passive power(pJ) for D falling :

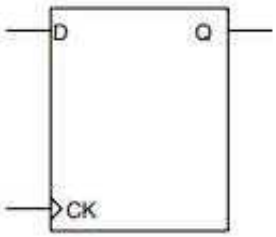
Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7L	0.00169	0.00191	0.00269
	-0.00003	-0.00003	-0.00002
	0.00004	0.00005	0.00005
	0.00111	0.00133	0.00211

DFFQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX3H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX3H7L	0.00097	0.00077	0.13324

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX3H7L	0.00000	5.99318	7.25121

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7L	CK->Q (RR)	0.08300	0.22143	0.54275

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7L	CK->Q (RF)	0.06520	0.17679	0.41444

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX3H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7L	**hold**	**CK (R)**	-0.04196	-0.01714	-0.00221
	setup	**CK (R)**	0.00917	0.02750	0.05263

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7L	**hold**	**CK (R)**	-0.09312	-0.01229	0.03138
	setup	**CK (R)**	-0.00524	0.04482	0.13457

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7L	CK	0.00382	0.00418	0.00545
	CK	0.00002	0.00002	0.00002
	CK	-0.00001	-0.00001	-0.00001
	CK	0.00453	0.00489	0.00610

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7L	CK	0.00368	0.00408	0.00568
	CK	-0.00002	0.00000	0.00000
	CK	0.00003	0.00003	0.00004
	CK	0.00435	0.00475	0.00635

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7L	0.00169	0.00202	0.00319
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00237	0.00269	0.00386

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7L	0.00357	0.00398	0.00543
	0.00004	0.00005	0.00006
	-0.00001	-0.00000	0.00000
	0.00304	0.00346	0.00491

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7L	0.00112	0.00133	0.00207
	0.00004	0.00004	0.00005
	-0.00005	-0.00005	-0.00004
	0.00174	0.00194	0.00268

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7L	0.00171	0.00194	0.00278
	-0.00005	-0.00004	-0.00004
	0.00004	0.00005	0.00005
	0.00109	0.00132	0.00216

DFFRQNX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? ID : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX1H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	**D**	**RN**	**QN**
DFFRQNX1H7L	0.00091	0.00085	0.00133	0.06103

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRQNX1H7L	0.00000	5.07666	6.46739

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7L	CK->QN (RR)	-	0.08797	0.22360	0.54845
	RN->QN (FR)	(CK * D)	0.08442	0.23930	0.61781
	RN->QN (FR)	(CK * !D)	0.08443	0.23930	0.61781
	RN->QN (FR)	(!CK * D)	0.09842	0.25067	0.63128
	RN->QN (FR)	(!CK * !D)	0.10167	0.25498	0.63773

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7L	CK->QN (RF)	-	0.11196	0.20920	0.42606

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7L	**hold**	**CK (R)**	-0.02128	0.00768	0.03789
	setup	**CK (R)**	-0.00876	0.03152	0.06448

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7L	**hold**	**CK (R)**	-0.11019	-0.04457	-0.00792
	setup	**CK (R)**	0.02633	0.06503	0.13281

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7L	**hold**	**CK (R)**	0.04164	0.07155	0.10707
	setup	**CK (R)**	-0.07144	-0.00933	0.10402

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7L	CK	-	0.00342	0.00372	0.00472
	CK	-	-0.00006	-0.00003	-0.00001
	CK	-	0.00004	0.00004	0.00004
	CK	-	0.00396	0.00427	0.00525
	RN	(CK * D)	0.00336	0.00366	0.00448
	RN	(CK * D)	-0.00009	-0.00003	0.00003
	RN	(CK * D)	-0.00004	-0.00001	0.00004
	RN	(CK * D)	0.00250	0.00277	0.00356
	RN	(CK * !D)	0.00336	0.00366	0.00446
	RN	(CK * !D)	-0.00009	-0.00003	0.00001
	RN	(CK * !D)	-0.00004	-0.00001	0.00003
	RN	(CK * !D)	0.00250	0.00277	0.00356
	RN	(!CK * D)	0.00311	0.00351	0.00477
	RN	(!CK * D)	-0.00016	-0.00012	-0.00009
	RN	(!CK * D)	0.00010	0.00014	0.00017
	RN	(!CK * D)	0.00188	0.00229	0.00355
	RN	(!CK * !D)	0.00234	0.00250	0.00293
	RN	(!CK * !D)	-0.00008	-0.00007	-0.00004
	RN	(!CK * !D)	0.00003	0.00007	0.00011
	RN	(!CK * !D)	0.00138	0.00155	0.00198

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7L	CK	-	0.00344	0.00374	0.00473
	CK	-	0.00001	0.00003	0.00007
	CK	-	-0.00004	-0.00004	-0.00004
	CK	-	0.00422	0.00453	0.00556

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(D * RN)	0.00166	0.00189	0.00275
	(D * RN)	0.00000	0.00001	0.00001
	(D * RN)	-0.00001	-0.00001	0.00000
	(D * RN)	0.00236	0.00260	0.00345
	(D * !RN)	0.00225	0.00247	0.00333
	(D * !RN)	0.00003	0.00004	0.00005
	(D * !RN)	-0.00009	-0.00008	-0.00008
	(D * !RN)	0.00309	0.00333	0.00418
	(!D * RN)	0.00160	0.00184	0.00269
	(!D * RN)	-0.00000	0.00000	0.00001
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00231	0.00254	0.00339
	(!D * !RN)	0.00160	0.00183	0.00268
	(!D * !RN)	-0.00001	-0.00000	0.00000
	(!D * !RN)	-0.00001	-0.00001	-0.00000
	(!D * !RN)	0.00230	0.00253	0.00338

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(D * RN)	0.00374	0.00400	0.00494
	(D * RN)	-0.00000	0.00000	0.00001
	(D * RN)	0.00007	0.00007	0.00007
	(D * RN)	0.00307	0.00332	0.00426
	(D * !RN)	0.00303	0.00328	0.00422
	(D * !RN)	-0.00004	-0.00004	-0.00003
	(D * !RN)	0.00008	0.00009	0.00009
	(D * !RN)	0.00216	0.00243	0.00337
	(!D * RN)	0.00391	0.00426	0.00543
	(!D * RN)	0.00000	0.00001	0.00002
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00320	0.00353	0.00470
	(!D * !RN)	0.00243	0.00270	0.00365
	(!D * !RN)	-0.00000	0.00000	0.00001
	(!D * !RN)	0.00000	0.00001	0.00001
	(!D * !RN)	0.00173	0.00200	0.00296

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(CK * RN)	0.00007	0.00033	0.00124
	(CK * RN)	0.00002	0.00002	0.00002
	(CK * RN)	-0.00003	-0.00002	-0.00002
	(CK * RN)	0.00072	0.00099	0.00189
	(CK * !RN)	0.00007	0.00033	0.00123
	(CK * !RN)	0.00002	0.00002	0.00002
	(CK * !RN)	-0.00003	-0.00002	-0.00002
	(CK * !RN)	0.00072	0.00099	0.00189
	(!CK * RN)	0.00144	0.00171	0.00264
	(!CK * RN)	0.00000	0.00001	0.00002
	(!CK * RN)	0.00003	0.00004	0.00005
	(!CK * RN)	0.00210	0.00237	0.00330
	(!CK * !RN)	0.00072	0.00098	0.00191
	(!CK * !RN)	-0.00005	-0.00004	-0.00004
	(!CK * !RN)	0.00008	0.00009	0.00009
	(!CK * !RN)	0.00115	0.00142	0.00234

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(CK * RN)	0.00080	0.00109	0.00207
	(CK * RN)	-0.00002	-0.00002	-0.00002
	(CK * RN)	0.00002	0.00002	0.00003
	(CK * RN)	0.00014	0.00044	0.00142
	(CK * !RN)	0.00080	0.00109	0.00207
	(CK * !RN)	-0.00002	-0.00002	-0.00002
	(CK * !RN)	0.00002	0.00002	0.00003
	(CK * !RN)	0.00015	0.00044	0.00142
	(!CK * RN)	0.00230	0.00259	0.00360
	(!CK * RN)	-0.00001	-0.00001	-0.00000
	(!CK * RN)	-0.00005	-0.00004	-0.00003
	(!CK * RN)	0.00164	0.00193	0.00294
	(!CK * !RN)	0.00143	0.00173	0.00276
	(!CK * !RN)	0.00004	0.00005	0.00005
	(!CK * !RN)	-0.00009	-0.00009	-0.00008
	(!CK * !RN)	0.00099	0.00130	0.00233

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(CK * D)	-0.00030	-0.00030	-0.00029
	(CK * D)	-0.00000	-0.00000	0.00001
	(CK * D)	0.00000	0.00001	0.00002
	(CK * D)	0.00047	0.00047	0.00048
	(CK * !D)	-0.00030	-0.00030	-0.00029
	(CK * !D)	-0.00000	0.00000	0.00001
	(CK * !D)	0.00000	0.00001	0.00002
	(CK * !D)	0.00046	0.00047	0.00047
	(!CK * D)	0.00025	0.00045	0.00109
	(!CK * D)	0.00004	0.00006	0.00010
	(!CK * D)	-0.00007	-0.00006	-0.00006
	(!CK * D)	0.00133	0.00150	0.00214
	(!CK * !D)	-0.00035	-0.00034	-0.00034
	(!CK * !D)	-0.00000	-0.00000	0.00001
	(!CK * !D)	0.00000	0.00000	0.00001
	(!CK * !D)	0.00042	0.00043	0.00044

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7L	(CK * D)	0.00030	0.00032	0.00033
	(CK * D)	-0.00001	0.00000	0.00000
	(CK * D)	-0.00001	-0.00000	0.00000
	(CK * D)	-0.00046	-0.00045	-0.00043
	(CK * !D)	0.00030	0.00032	0.00033
	(CK * !D)	-0.00001	-0.00000	0.00000
	(CK * !D)	-0.00001	-0.00001	-0.00000
	(CK * !D)	-0.00046	-0.00045	-0.00043
	(!CK * D)	0.00114	0.00137	0.00219
	(!CK * D)	-0.00005	-0.00005	-0.00004
	(!CK * D)	0.00006	0.00006	0.00007
	(!CK * D)	0.00010	0.00034	0.00116
	(!CK * !D)	0.00035	0.00036	0.00037
	(!CK * !D)	0.00000	0.00001	0.00002
	(!CK * !D)	-0.00001	-0.00000	0.00001
	(!CK * !D)	-0.00041	-0.00040	-0.00039

DFFRQNX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? !D : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX2H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	QN
DFFRQNX2H7L	0.00091	0.00086	0.00132	0.08223

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQNX2H7L	0.00000	5.78669	7.37373

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7L	CK->QN (RR)	-	0.08762	0.22374	0.54918
	RN->QN (FR)	(CK * D)	0.08409	0.23958	0.61871
	RN->QN (FR)	(CK * !D)	0.08410	0.23958	0.61877
	RN->QN (FR)	(!CK * D)	0.09867	0.25161	0.63322
	RN->QN (FR)	(!CK * !D)	0.10190	0.25590	0.64021

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7L	CK->QN (RF)	-	0.11121	0.20370	0.40500

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7L	**hold**	**CK (R)**	-0.02207	0.00800	0.04107
	setup	**CK (R)**	-0.00874	0.03163	0.06460

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7L	**hold**	**CK (R)**	-0.10796	-0.04439	-0.00795
	setup	**CK (R)**	0.02632	0.06500	0.13281

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7L	**hold**	**CK (R)**	0.04120	0.07157	0.10610
	setup	**CK (R)**	-0.07412	-0.00918	0.10737

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7L	CK	-	0.00355	0.00390	0.00493
	CK	-	-0.00007	-0.00004	0.00000
	CK	-	0.00004	0.00005	0.00005
	CK	-	0.00413	0.00443	0.00542
	RN	(CK * D)	0.00357	0.00383	0.00464
	RN	(CK * D)	-0.00004	-0.00004	-0.00002
	RN	(CK * D)	-0.00004	0.00000	0.00006
	RN	(CK * D)	0.00263	0.00294	0.00374
	RN	(CK * !D)	0.00355	0.00383	0.00464
	RN	(CK * !D)	-0.00007	-0.00004	0.00000
	RN	(CK * !D)	-0.00005	0.00000	0.00005
	RN	(CK * !D)	0.00263	0.00294	0.00374
	RN	(!CK * D)	0.00330	0.00369	0.00496
	RN	(!CK * D)	-0.00017	-0.00013	-0.00013
	RN	(!CK * D)	0.00014	0.00015	0.00015
	RN	(!CK * D)	0.00207	0.00246	0.00374
	RN	(!CK * !D)	0.00254	0.00269	0.00315
	RN	(!CK * !D)	-0.00007	-0.00007	-0.00007
	RN	(!CK * !D)	0.00006	0.00008	0.00008
	RN	(!CK * !D)	0.00158	0.00173	0.00217

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7L	CK	-	0.00365	0.00397	0.00495
	CK	-	0.00000	0.00004	0.00009
	CK	-	-0.00005	-0.00005	-0.00004
	CK	-	0.00446	0.00477	0.00584

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(D * RN)	0.00165	0.00189	0.00275
	(D * RN)	0.00000	0.00001	0.00001
	(D * RN)	-0.00001	-0.00001	0.00000
	(D * RN)	0.00236	0.00259	0.00345
	(D * !RN)	0.00225	0.00247	0.00332
	(D * !RN)	0.00003	0.00004	0.00005
	(D * !RN)	-0.00009	-0.00008	-0.00007
	(D * !RN)	0.00309	0.00332	0.00418
	(!D * RN)	0.00161	0.00184	0.00269
	(!D * RN)	-0.00000	0.00000	0.00000
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00229	0.00253	0.00339
	(!D * !RN)	0.00161	0.00184	0.00268
	(!D * !RN)	-0.00000	-0.00000	0.00000
	(!D * !RN)	-0.00001	-0.00001	0.00000
	(!D * !RN)	0.00229	0.00252	0.00338

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(D * RN)	0.00374	0.00400	0.00494
	(D * RN)	-0.00000	-0.00000	0.00001
	(D * RN)	0.00007	0.00007	0.00007
	(D * RN)	0.00305	0.00331	0.00425
	(D * !RN)	0.00303	0.00328	0.00422
	(D * !RN)	-0.00004	-0.00004	-0.00003
	(D * !RN)	0.00008	0.00009	0.00009
	(D * !RN)	0.00216	0.00243	0.00337
	(!D * RN)	0.00391	0.00426	0.00542
	(!D * RN)	-0.00000	0.00000	0.00001
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00318	0.00352	0.00470
	(!D * !RN)	0.00242	0.00270	0.00365
	(!D * !RN)	-0.00000	0.00000	0.00001
	(!D * !RN)	0.00000	0.00001	0.00001
	(!D * !RN)	0.00173	0.00200	0.00295

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(CK * RN)	0.00007	0.00033	0.00123
	(CK * RN)	0.00002	0.00002	0.00002
	(CK * RN)	-0.00003	-0.00002	-0.00002
	(CK * RN)	0.00072	0.00099	0.00189
	(CK * !RN)	0.00007	0.00033	0.00123
	(CK * !RN)	0.00002	0.00002	0.00002
	(CK * !RN)	-0.00002	-0.00002	-0.00002
	(CK * !RN)	0.00073	0.00099	0.00189
	(!CK * RN)	0.00144	0.00171	0.00264
	(!CK * RN)	0.00000	0.00001	0.00001
	(!CK * RN)	0.00002	0.00004	0.00004
	(!CK * RN)	0.00210	0.00237	0.00330
	(!CK * !RN)	0.00072	0.00099	0.00191
	(!CK * !RN)	-0.00005	-0.00004	-0.00004
	(!CK * !RN)	0.00008	0.00009	0.00010
	(!CK * !RN)	0.00115	0.00142	0.00235

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(CK * RN)	0.00080	0.00109	0.00208
	(CK * RN)	-0.00002	-0.00002	-0.00002
	(CK * RN)	0.00002	0.00002	0.00003
	(CK * RN)	0.00014	0.00044	0.00142
	(CK * !RN)	0.00080	0.00109	0.00208
	(CK * !RN)	-0.00002	-0.00002	-0.00002
	(CK * !RN)	0.00002	0.00002	0.00003
	(CK * !RN)	0.00015	0.00044	0.00142
	(!CK * RN)	0.00229	0.00258	0.00360
	(!CK * RN)	-0.00001	-0.00001	-0.00000
	(!CK * RN)	-0.00004	-0.00003	-0.00002
	(!CK * RN)	0.00163	0.00192	0.00294
	(!CK * !RN)	0.00143	0.00173	0.00276
	(!CK * !RN)	0.00004	0.00005	0.00006
	(!CK * !RN)	-0.00010	-0.00009	-0.00008
	(!CK * !RN)	0.00099	0.00130	0.00233

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(CK * D)	-0.00029	-0.00029	-0.00029
	(CK * D)	-0.00001	-0.00000	0.00000
	(CK * D)	0.00000	0.00001	0.00002
	(CK * D)	0.00045	0.00047	0.00048
	(CK * !D)	-0.00029	-0.00029	-0.00029
	(CK * !D)	-0.00001	-0.00000	0.00000
	(CK * !D)	0.00000	0.00001	0.00001
	(CK * !D)	0.00047	0.00047	0.00048
	(!CK * D)	0.00025	0.00045	0.00110
	(!CK * D)	0.00005	0.00006	0.00010
	(!CK * D)	-0.00007	-0.00006	-0.00006
	(!CK * D)	0.00132	0.00149	0.00213
	(!CK * !D)	-0.00034	-0.00034	-0.00033
	(!CK * !D)	-0.00000	-0.00000	0.00000
	(!CK * !D)	0.00000	0.00000	0.00001
	(!CK * !D)	0.00041	0.00042	0.00043

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7L	(CK * D)	0.00030	0.00031	0.00031
	(CK * D)	0.00000	0.00001	0.00003
	(CK * D)	-0.00001	-0.00001	0.00000
	(CK * D)	-0.00046	-0.00044	-0.00042
	(CK * !D)	0.00030	0.00031	0.00032
	(CK * !D)	0.00000	0.00001	0.00003
	(CK * !D)	-0.00001	-0.00001	0.00000
	(CK * !D)	-0.00046	-0.00044	-0.00042
	(!CK * D)	0.00113	0.00137	0.00218
	(!CK * D)	-0.00005	-0.00005	-0.00004
	(!CK * D)	0.00006	0.00006	0.00007
	(!CK * D)	0.00009	0.00034	0.00116
	(!CK * !D)	0.00035	0.00036	0.00037
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	-0.00001	-0.00000	0.00000
	(!CK * !D)	-0.00041	-0.00040	-0.00039

DFFRQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX0P5H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX0P5H7L	0.00095	0.00101	0.00147	0.06303

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX0P5H7L	0.00000	5.31882	8.69192

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7L	CK->Q (RR)	RN	0.08223	0.22422	0.55013

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7L	CK->Q (RF)	RN	0.06756	0.17690	0.41446
	RN->Q (FF)	(CK * D)	0.03408	0.14953	0.41543
	RN->Q (FF)	(CK * !D)	0.03408	0.14954	0.41543
	RN->Q (FF)	(!CK * D)	0.04193	0.16539	0.44575
	RN->Q (FF)	(!CK * !D)	0.04395	0.16818	0.45029

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7L	**hold**	**CK (R)**	-0.01421	0.01183	0.03814
	setup	**CK (R)**	-0.00935	0.02565	0.05917

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7L	**hold**	**CK (R)**	-0.10455	-0.04347	-0.00800
	setup	**CK (R)**	0.02869	0.06507	0.12877

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7L	**recovery**	**CK (R)**	-0.06606	-0.00278	0.13959
	removal	**CK (R)**	-0.00606	0.04070	0.08464

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7L	CK	RN	0.00345	0.00378	0.00498
	CK	RN	-0.00000	0.00001	0.00001
	CK	RN	-0.00000	-0.00000	0.00002
	CK	RN	0.00422	0.00457	0.00574

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7L	CK	RN	0.00346	0.00379	0.00500
	CK	RN	-0.00001	-0.00001	0.00000
	CK	RN	-0.00000	0.00000	0.00000
	CK	RN	0.00410	0.00442	0.00564
	RN	(CK * D)	0.00368	0.00409	0.00559
	RN	(CK * D)	-0.00003	-0.00002	0.00001
	RN	(CK * D)	-0.00004	-0.00003	-0.00002
	RN	(CK * D)	0.00271	0.00311	0.00462
	RN	(CK * !D)	0.00371	0.00409	0.00559
	RN	(CK * !D)	-0.00003	-0.00002	-0.00000
	RN	(CK * !D)	-0.00007	-0.00003	-0.00002
	RN	(CK * !D)	0.00271	0.00311	0.00462
	RN	(!CK * D)	0.00318	0.00376	0.00589
	RN	(!CK * D)	-0.00015	-0.00011	-0.00007
	RN	(!CK * D)	0.00012	0.00012	0.00013
	RN	(!CK * D)	0.00188	0.00247	0.00460
	RN	(!CK * !D)	0.00176	0.00259	0.00367
	RN	(!CK * !D)	-0.00008	-0.00002	0.00063
	RN	(!CK * !D)	0.00000	0.00003	0.00003
	RN	(!CK * !D)	0.00135	0.00163	0.00271

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00242	0.00269	0.00372
	0.00003	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00330	0.00358	0.00461

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00413	0.00451	0.00587
	-0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00337	0.00376	0.00512

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00164	0.00199	0.00316
	0.00001	0.00002	0.00003
	0.00001	0.00002	0.00003
	0.00243	0.00278	0.00396

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00251	0.00290	0.00419
	-0.00002	-0.00001	-0.00001
	-0.00003	-0.00002	-0.00001
	0.00174	0.00211	0.00340

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00032	0.00054	0.00137
	0.00006	0.00007	0.00007
	-0.00009	-0.00009	-0.00008
	0.00149	0.00171	0.00255

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7L	0.00125	0.00157	0.00262
	-0.00007	-0.00007	-0.00006
	0.00008	0.00009	0.00009
	0.00010	0.00040	0.00145

DFFRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX1H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX1H7L	0.00094	0.00109	0.00148	0.07470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX1H7L	0.00000	5.52920	9.14911

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7L	CK->Q (RR)	RN	0.08141	0.22434	0.55190

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7L	CK->Q (RF)	RN	0.06765	0.17852	0.41800
	RN->Q (FF)	(CK * D)	0.03410	0.15104	0.41941
	RN->Q (FF)	(CK * !D)	0.03410	0.15104	0.41941
	RN->Q (FF)	(!CK * D)	0.04252	0.16780	0.45115
	RN->Q (FF)	(!CK * !D)	0.04458	0.17060	0.45592

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7L	**hold**	**CK (R)**	-0.00993	0.01521	0.04231
	setup	**CK (R)**	-0.01079	0.02322	0.05352

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7L	**hold**	**CK (R)**	-0.09908	-0.03935	-0.00787
	setup	**CK (R)**	0.02576	0.06128	0.12498

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7L	**recovery**	**CK (R)**	-0.06505	-0.00106	0.14523
	removal	**CK (R)**	-0.00715	0.03921	0.08288

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7L	CK	RN	0.00352	0.00386	0.00508
	CK	RN	0.00000	0.00001	0.00004
	CK	RN	-0.00000	0.00000	0.00010
	CK	RN	0.00430	0.00464	0.00582

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7L	CK	RN	0.00358	0.00390	0.00514
	CK	RN	-0.00004	-0.00001	0.00001
	CK	RN	-0.00000	0.00000	0.00000
	CK	RN	0.00421	0.00454	0.00578
	RN	(CK * D)	0.00376	0.00419	0.00579
	RN	(CK * D)	-0.00007	-0.00002	0.00003
	RN	(CK * D)	-0.00004	-0.00003	0.00003
	RN	(CK * D)	0.00276	0.00321	0.00482
	RN	(CK * !D)	0.00379	0.00420	0.00579
	RN	(CK * !D)	-0.00007	-0.00002	-0.00001
	RN	(CK * !D)	-0.00004	-0.00003	0.00003
	RN	(CK * !D)	0.00276	0.00321	0.00483
	RN	(!CK * D)	0.00328	0.00388	0.00609
	RN	(!CK * D)	-0.00014	-0.00010	-0.00007
	RN	(!CK * D)	0.00012	0.00012	0.00013
	RN	(!CK * D)	0.00199	0.00259	0.00481
	RN	(!CK * !D)	0.00243	0.00272	0.00389
	RN	(!CK * !D)	-0.00007	-0.00003	0.00001
	RN	(!CK * !D)	0.00002	0.00003	0.00003
	RN	(!CK * !D)	0.00146	0.00175	0.00292

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00239	0.00268	0.00371
	0.00005	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00329	0.00357	0.00460

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00414	0.00453	0.00589
	-0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00338	0.00378	0.00514

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00160	0.00201	0.00338
	0.00000	0.00002	0.00003
	0.00000	0.00001	0.00002
	0.00246	0.00286	0.00423

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00255	0.00301	0.00452
	-0.00002	-0.00001	0.00000
	-0.00002	-0.00001	0.00000
	0.00171	0.00216	0.00366

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00032	0.00054	0.00138
	0.00007	0.00007	0.00008
	-0.00010	-0.00009	-0.00009
	0.00150	0.00172	0.00256

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7L	0.00126	0.00157	0.00262
	-0.00007	-0.00007	-0.00007
	0.00009	0.00009	0.00010
	0.00008	0.00040	0.00145

DFFRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX2H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX2H7L	0.00108	0.00105	0.00148	0.08606

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX2H7L	0.00000	5.82070	9.68059

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7L	CK->Q (RR)	RN	0.07656	0.21791	0.54087

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7L	CK->Q (RF)	RN	0.06765	0.18016	0.41866
	RN->Q (FF)	(CK * D)	0.03723	0.15825	0.43586
	RN->Q (FF)	(CK * !D)	0.03723	0.15825	0.43591
	RN->Q (FF)	(!CK * D)	0.04450	0.17329	0.46891
	RN->Q (FF)	(!CK * !D)	0.04655	0.17610	0.47307

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7L	**hold**	**CK (R)**	-0.00833	0.01330	0.03789
	setup	**CK (R)**	-0.00562	0.02565	0.05548

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7L	**hold**	**CK (R)**	-0.11436	-0.04528	-0.01172
	setup	**CK (R)**	0.03206	0.07200	0.14220

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7L	**recovery**	**CK (R)**	-0.05671	0.00669	0.16444
	removal	**CK (R)**	-0.00848	0.03314	0.07586

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7L	CK	RN	0.00372	0.00412	0.00549
	CK	RN	0.00000	0.00000	0.00001
	CK	RN	0.00000	0.00000	0.00001
	CK	RN	0.00459	0.00499	0.00636

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7L	CK	RN	0.00374	0.00412	0.00558
	CK	RN	-0.00001	-0.00000	0.00001
	CK	RN	-0.00000	-0.00000	0.00000
	CK	RN	0.00449	0.00486	0.00632
	RN	(CK * D)	0.00382	0.00423	0.00595
	RN	(CK * D)	-0.00006	-0.00001	0.00001
	RN	(CK * D)	-0.00004	-0.00003	0.00003
	RN	(CK * D)	0.00282	0.00327	0.00501
	RN	(CK * !D)	0.00382	0.00423	0.00596
	RN	(CK * !D)	-0.00006	-0.00001	0.00004
	RN	(CK * !D)	-0.00005	-0.00003	-0.00002
	RN	(CK * !D)	0.00285	0.00328	0.00501
	RN	(!CK * D)	0.00337	0.00398	0.00630
	RN	(!CK * D)	-0.00013	-0.00009	-0.00005
	RN	(!CK * D)	0.00011	0.00012	0.00013
	RN	(!CK * D)	0.00209	0.00271	0.00504
	RN	(!CK * !D)	0.00253	0.00287	0.00428
	RN	(!CK * !D)	-0.00005	-0.00002	0.00002
	RN	(!CK * !D)	0.00001	0.00003	0.00006
	RN	(!CK * !D)	0.00155	0.00190	0.00332

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00241	0.00274	0.00397
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00338	0.00373	0.00495

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00424	0.00468	0.00622
	0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00339	0.00384	0.00539

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00160	0.00198	0.00324
	0.00000	0.00001	0.00003
	0.00001	0.00001	0.00003
	0.00242	0.00279	0.00405

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00248	0.00289	0.00428
	-0.00002	-0.00001	0.00000
	-0.00002	-0.00001	-0.00001
	0.00166	0.00208	0.00346

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00036	0.00055	0.00128
	0.00006	0.00006	0.00006
	-0.00009	-0.00009	-0.00009
	0.00153	0.00172	0.00245

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7L	0.00122	0.00149	0.00240
	-0.00006	-0.00006	-0.00006
	0.00009	0.00009	0.00009
	0.00005	0.00032	0.00124

DFFRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX0P5H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX0P5H7L	0.00089	0.00080	0.00107	0.06324	0.06300

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX0P5H7L	0.00000	6.64302	8.12779

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7L	CK->Q (RR)	RN	0.11135	0.24705	0.57642

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7L	CK->Q (RF)	RN	0.10816	0.21091	0.44515
	RN->Q (FF)	(CK * D)	0.07569	0.18656	0.45251
	RN->Q (FF)	(CK * !D)	0.07569	0.18656	0.45251
	RN->Q (FF)	(!CK * D)	0.06988	0.17977	0.44388
	RN->Q (FF)	(!CK * !D)	0.06932	0.17884	0.44193

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7L	CK->QN (RR)	RN	0.08723	0.22855	0.55851
	RN->QN (FR)	(CK * D)	0.05414	0.20436	0.56639
	RN->QN (FR)	(CK * !D)	0.05415	0.20437	0.56640
	RN->QN (FR)	(!CK * D)	0.05008	0.19534	0.55327
	RN->QN (FR)	(!CK * !D)	0.04965	0.19443	0.55154

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7L	CK->QN (RF)	RN	0.08249	0.20408	0.45384

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7L	**hold**	**CK (R)**	-0.03179	-0.01165	0.00405
	setup	**CK (R)**	0.01586	0.04070	0.07245

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7L	**hold**	**CK (R)**	-0.06769	0.00799	0.05589
	setup	**CK (R)**	-0.03373	0.03227	0.14431

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7L	**recovery**	**CK (R)**	0.00475	0.03107	0.05997
	removal	**CK (R)**	0.05826	0.08831	0.13385

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7L	CK	RN	0.00223	0.00238	0.00298
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00002	0.00003
	CK	RN	0.00246	0.00262	0.00322

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7L	CK	RN	0.00217	0.00234	0.00291
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00003	-0.00002	-0.00002
	CK	RN	0.00256	0.00273	0.00330
	RN	(CK * D)	0.00234	0.00255	0.00320
	RN	(CK * D)	-0.00001	0.00001	0.00001
	RN	(CK * D)	-0.00000	0.00000	0.00002
	RN	(CK * D)	0.00197	0.00220	0.00288
	RN	(CK * !D)	0.00234	0.00255	0.00320
	RN	(CK * !D)	-0.00002	0.00001	0.00001
	RN	(CK * !D)	-0.00001	0.00000	0.00002
	RN	(CK * !D)	0.00197	0.00220	0.00288
	RN	(!CK * D)	0.00167	0.00188	0.00255
	RN	(!CK * D)	-0.00000	0.00002	0.00004
	RN	(!CK * D)	-0.00007	-0.00003	-0.00001
	RN	(!CK * D)	0.00134	0.00158	0.00226
	RN	(!CK * !D)	0.00167	0.00188	0.00255
	RN	(!CK * !D)	0.00001	0.00002	0.00003
	RN	(!CK * !D)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D)	0.00136	0.00158	0.00224

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7L	CK	RN	0.00218	0.00234	0.00292
	CK	RN	0.00000	0.00001	0.00002
	CK	RN	-0.00003	-0.00002	-0.00002
	CK	RN	0.00256	0.00273	0.00332
	RN	(CK * D)	0.00234	0.00255	0.00320
	RN	(CK * D)	-0.00002	0.00001	0.00003
	RN	(CK * D)	-0.00000	0.00000	0.00002
	RN	(CK * D)	0.00199	0.00220	0.00286
	RN	(CK * !D)	0.00234	0.00255	0.00320
	RN	(CK * !D)	0.00000	0.00001	0.00002
	RN	(CK * !D)	-0.00002	0.00000	0.00002
	RN	(CK * !D)	0.00199	0.00220	0.00286
	RN	(!CK * D)	0.00164	0.00188	0.00256
	RN	(!CK * D)	0.00002	0.00002	0.00005
	RN	(!CK * D)	-0.00005	-0.00003	-0.00001
	RN	(!CK * D)	0.00135	0.00158	0.00228
	RN	(!CK * !D)	-0.00064	0.00183	0.00256
	RN	(!CK * !D)	-0.00001	0.00010	0.00410
	RN	(!CK * !D)	-0.00003	-0.00002	0.00010
	RN	(!CK * !D)	0.00133	0.00160	0.00291

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7L	CK	RN	0.00221	0.00238	0.00297
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00002	0.00003
	CK	RN	0.00246	0.00262	0.00321

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00319	0.00347	0.00449
	-0.00003	-0.00002	-0.00001
	0.00003	0.00004	0.00004
	0.00374	0.00402	0.00504

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00407	0.00445	0.00580
	0.00004	0.00004	0.00005
	-0.00004	-0.00003	-0.00003
	0.00357	0.00395	0.00529

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00125	0.00144	0.00214
	0.00002	0.00003	0.00003
	-0.00005	-0.00004	-0.00004
	0.00189	0.00208	0.00278

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00181	0.00203	0.00283
	-0.00003	-0.00003	-0.00002
	0.00004	0.00004	0.00005
	0.00115	0.00138	0.00218

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00107	0.00141	0.00255
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00175	0.00208	0.00322

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7L	0.00095	0.00132	0.00257
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00012	0.00050	0.00175

DFFRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX1H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX1H7L	0.00089	0.00080	0.00108	0.07481	0.07467

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX1H7L	0.00000	6.94709	8.48634

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7L	CK->Q (RR)	RN	0.11009	0.24586	0.57550

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7L	CK->Q (RF)	RN	0.10750	0.21071	0.44577
	RN->Q (FF)	(CK * D)	0.07384	0.18526	0.45208
	RN->Q (FF)	(CK * !D)	0.07384	0.18526	0.45226
	RN->Q (FF)	(!CK * D)	0.06816	0.17860	0.44345
	RN->Q (FF)	(!CK * !D)	0.06771	0.17778	0.44173

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7L	CK->QN (RR)	RN	0.08616	0.22791	0.55821
	RN->QN (FR)	(CK * D)	0.05218	0.20265	0.56554
	RN->QN (FR)	(CK * !D)	0.05219	0.20266	0.56575
	RN->QN (FR)	(!CK * D)	0.04827	0.19397	0.55250
	RN->QN (FR)	(!CK * !D)	0.04796	0.19318	0.55080

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7L	CK->QN (RF)	RN	0.08177	0.20471	0.45577

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7L	**hold**	**CK (R)**	-0.03211	-0.01207	0.00221
	setup	**CK (R)**	0.01598	0.04094	0.07520

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7L	**hold**	**CK (R)**	-0.06789	0.00865	0.05816
	setup	**CK (R)**	-0.03494	0.03185	0.14383

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7L	**recovery**	**CK (R)**	0.00229	0.02944	0.05636
	removal	**CK (R)**	0.05816	0.08722	0.12997

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7L	CK	RN	0.00232	0.00248	0.00309
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00002	0.00002
	CK	RN	0.00255	0.00271	0.00332

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7L	CK	RN	0.00226	0.00244	0.00301
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00002	-0.00002	-0.00002
	CK	RN	0.00266	0.00283	0.00340
	RN	(CK * D)	0.00243	0.00265	0.00331
	RN	(CK * D)	0.00000	0.00001	0.00002
	RN	(CK * D)	-0.00002	0.00000	0.00002
	RN	(CK * D)	0.00208	0.00230	0.00299
	RN	(CK * !D)	0.00243	0.00265	0.00330
	RN	(CK * !D)	-0.00000	0.00001	0.00002
	RN	(CK * !D)	-0.00002	0.00000	0.00002
	RN	(CK * !D)	0.00208	0.00230	0.00297
	RN	(!CK * D)	0.00173	0.00196	0.00263
	RN	(!CK * D)	0.00002	0.00002	0.00005
	RN	(!CK * D)	-0.00005	-0.00003	0.00001
	RN	(!CK * D)	0.00141	0.00165	0.00233
	RN	(!CK * !D)	0.00174	0.00196	0.00263
	RN	(!CK * !D)	-0.00001	0.00002	0.00007
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00000
	RN	(!CK * !D)	0.00142	0.00165	0.00233

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7L	CK	RN	0.00228	0.00244	0.00301
	CK	RN	0.00001	0.00001	0.00003
	CK	RN	-0.00002	-0.00002	-0.00002
	CK	RN	0.00266	0.00283	0.00341
	RN	(CK * D)	0.00242	0.00265	0.00332
	RN	(CK * D)	0.00001	0.00001	0.00004
	RN	(CK * D)	-0.00002	0.00000	0.00003
	RN	(CK * D)	0.00210	0.00231	0.00299
	RN	(CK * !D)	0.00242	0.00265	0.00333
	RN	(CK * !D)	-0.00001	0.00001	0.00004
	RN	(CK * !D)	-0.00003	-0.00000	0.00001
	RN	(CK * !D)	0.00209	0.00231	0.00300
	RN	(!CK * D)	0.00171	0.00196	0.00264
	RN	(!CK * D)	-0.00001	0.00002	0.00005
	RN	(!CK * D)	-0.00005	-0.00003	-0.00000
	RN	(!CK * D)	0.00143	0.00166	0.00236
	RN	(!CK * !D)	0.00174	0.00196	0.00263
	RN	(!CK * !D)	-0.00001	0.00002	0.00002
	RN	(!CK * !D)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D)	0.00142	0.00165	0.00233

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7L	CK	RN	0.00231	0.00248	0.00308
	CK	RN	-0.00002	-0.00001	-0.00000
	CK	RN	0.00002	0.00002	0.00002
	CK	RN	0.00255	0.00271	0.00332

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00327	0.00354	0.00456
	-0.00003	-0.00002	-0.00001
	0.00003	0.00004	0.00005
	0.00380	0.00409	0.00511

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00411	0.00449	0.00583
	0.00003	0.00004	0.00004
	-0.00004	-0.00003	-0.00002
	0.00360	0.00398	0.00532

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00128	0.00147	0.00218
	0.00001	0.00002	0.00002
	-0.00004	-0.00004	-0.00003
	0.00191	0.00211	0.00282

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00181	0.00203	0.00284
	-0.00002	-0.00002	-0.00001
	0.00003	0.00004	0.00005
	0.00117	0.00139	0.00220

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00111	0.00145	0.00258
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00178	0.00211	0.00325

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7L	0.00095	0.00132	0.00257
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00012	0.00050	0.00175

DFFRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX2H7L	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX2H7L	0.00101	0.00085	0.00114	0.09495	0.08614

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX2H7L	0.00000	8.56617	10.00900

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7L	CK->Q (RR)	RN	0.10898	0.24441	0.57341

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7L	CK->Q (RF)	RN	0.10205	0.20651	0.44424
	RN->Q (FF)	(CK * D)	0.07397	0.18670	0.45717
	RN->Q (FF)	(CK * !D)	0.07397	0.18670	0.45718
	RN->Q (FF)	(!CK * D)	0.06775	0.17955	0.44783
	RN->Q (FF)	(!CK * !D)	0.06735	0.17882	0.44628

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7L	CK->QN (RR)	RN	0.07817	0.21864	0.54589
	RN->QN (FR)	(CK * D)	0.04959	0.19875	0.55895
	RN->QN (FR)	(CK * !D)	0.04959	0.19875	0.55895
	RN->QN (FR)	(!CK * D)	0.04552	0.19015	0.54722
	RN->QN (FR)	(!CK * !D)	0.04528	0.18944	0.54566

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7L	CK->QN (RF)	RN	0.07635	0.19844	0.44804

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7L	**hold**	**CK (R)**	-0.03222	-0.01277	0.00171
	setup	**CK (R)**	0.01554	0.04093	0.07191

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7L	**hold**	**CK (R)**	-0.07613	0.00045	0.04760
	setup	**CK (R)**	-0.02462	0.03867	0.15040

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7L	**recovery**	**CK (R)**	0.00002	0.02481	0.05062
	removal	**CK (R)**	0.05249	0.08206	0.12346

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7L	CK	RN	0.00255	0.00275	0.00350
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00002	0.00002
	CK	RN	0.00284	0.00304	0.00379

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7L	CK	RN	0.00252	0.00274	0.00345
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00002	-0.00002	-0.00002
	CK	RN	0.00297	0.00319	0.00389
	RN	(CK * D)	0.00273	0.00299	0.00374
	RN	(CK * D)	-0.00001	0.00001	0.00002
	RN	(CK * D)	-0.00002	-0.00000	0.00001
	RN	(CK * D)	0.00236	0.00262	0.00338
	RN	(CK * !D)	0.00273	0.00299	0.00374
	RN	(CK * !D)	-0.00001	0.00001	0.00002
	RN	(CK * !D)	-0.00002	-0.00000	0.00001
	RN	(CK * !D)	0.00236	0.00262	0.00338
	RN	(!CK * D)	0.00198	0.00226	0.00304
	RN	(!CK * D)	0.00001	0.00002	0.00005
	RN	(!CK * D)	-0.00006	-0.00003	-0.00000
	RN	(!CK * D)	0.00165	0.00194	0.00272
	RN	(!CK * !D)	0.00200	0.00227	0.00304
	RN	(!CK * !D)	-0.00005	0.00002	0.00005
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00003
	RN	(!CK * !D)	0.00167	0.00193	0.00271

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7L	CK	RN	0.00252	0.00275	0.00345
	CK	RN	0.00000	0.00001	0.00004
	CK	RN	-0.00004	-0.00002	-0.00002
	CK	RN	0.00296	0.00319	0.00392
	RN	(CK * D)	0.00272	0.00299	0.00375
	RN	(CK * D)	-0.00003	0.00001	0.00005
	RN	(CK * D)	-0.00002	-0.00000	0.00001
	RN	(CK * D)	0.00237	0.00262	0.00339
	RN	(CK * !D)	0.00271	0.00298	0.00374
	RN	(CK * !D)	-0.00003	0.00002	0.00005
	RN	(CK * !D)	-0.00002	-0.00000	0.00003
	RN	(CK * !D)	0.00237	0.00262	0.00338
	RN	(!CK * D)	0.00197	0.00227	0.00307
	RN	(!CK * D)	-0.00002	0.00002	0.00004
	RN	(!CK * D)	-0.00004	-0.00003	-0.00001
	RN	(!CK * D)	0.00165	0.00194	0.00278
	RN	(!CK * !D)	0.00199	0.00227	0.00307
	RN	(!CK * !D)	-0.00001	0.00002	0.00016
	RN	(!CK * !D)	-0.00004	-0.00002	0.00002
	RN	(!CK * !D)	0.00166	0.00193	0.00275

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7L	CK	RN	0.00254	0.00275	0.00349
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00003	0.00004
	CK	RN	0.00284	0.00304	0.00378

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00342	0.00376	0.00503
	-0.00001	-0.00000	0.00000
	0.00002	0.00003	0.00005
	0.00407	0.00442	0.00570

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00472	0.00509	0.00646
	-0.00000	0.00000	0.00001
	0.00005	0.00005	0.00006
	0.00386	0.00424	0.00562

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00128	0.00148	0.00219
	0.00001	0.00002	0.00002
	-0.00004	-0.00003	-0.00003
	0.00195	0.00215	0.00286

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00189	0.00212	0.00294
	-0.00002	-0.00002	-0.00001
	0.00003	0.00003	0.00004
	0.00122	0.00145	0.00227

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00111	0.00151	0.00284
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00182	0.00222	0.00355

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7L	0.00102	0.00146	0.00291
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00014	0.00058	0.00204

DFFRX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX3H7L	10.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX3H7L	0.00102	0.00083	0.00111	0.13368	0.13325

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX3H7L	0.00000	9.77855	11.70440

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7L	CK->Q (RR)	RN	0.11629	0.25084	0.58069

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7L	CK->Q (RF)	RN	0.10618	0.20957	0.44524
	RN->Q (FF)	(CK * D)	0.07727	0.18949	0.45866
	RN->Q (FF)	(CK * !D)	0.07727	0.18949	0.45866
	RN->Q (FF)	(!CK * D)	0.07071	0.18210	0.44924
	RN->Q (FF)	(!CK * !D)	0.07042	0.18158	0.44808

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7L	CK->QN (RR)	RN	0.07933	0.22204	0.55167
	RN->QN (FR)	(CK * D)	0.05020	0.20175	0.56489
	RN->QN (FR)	(CK * !D)	0.05020	0.20175	0.56489
	RN->QN (FR)	(!CK * D)	0.04625	0.19315	0.55245
	RN->QN (FR)	(!CK * !D)	0.04613	0.19265	0.55133

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7L	CK->QN (RF)	RN	0.07916	0.20635	0.46167

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7L	**hold**	**CK (R)**	-0.03027	-0.01022	0.00378
	setup	**CK (R)**	0.01576	0.03785	0.06962

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7L	**hold**	**CK (R)**	-0.07271	0.00333	0.05256
	setup	**CK (R)**	-0.02969	0.03484	0.14394

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7L	**recovery**	**CK (R)**	-0.00455	0.02178	0.04922
	removal	**CK (R)**	0.05127	0.08250	0.12276

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX3H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7L	CK	RN	0.00288	0.00309	0.00393
	CK	RN	-0.00002	-0.00001	0.00002
	CK	RN	0.00001	0.00003	0.00003
	CK	RN	0.00317	0.00338	0.00422

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7L	CK	RN	0.00286	0.00308	0.00378
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00003	-0.00003	-0.00001
	CK	RN	0.00330	0.00352	0.00423
	RN	(CK * D)	0.00303	0.00332	0.00410
	RN	(CK * D)	0.00001	0.00002	0.00005
	RN	(CK * D)	-0.00004	-0.00001	0.00002
	RN	(CK * D)	0.00269	0.00297	0.00375
	RN	(CK * !D)	0.00307	0.00332	0.00410
	RN	(CK * !D)	-0.00002	0.00001	0.00005
	RN	(CK * !D)	-0.00004	-0.00001	0.00002
	RN	(CK * !D)	0.00271	0.00297	0.00375
	RN	(!CK * D)	0.00228	0.00254	0.00333
	RN	(!CK * D)	-0.00001	0.00002	0.00005
	RN	(!CK * D)	-0.00004	-0.00003	-0.00000
	RN	(!CK * D)	0.00193	0.00223	0.00302
	RN	(!CK * !D)	0.00225	0.00254	0.00332
	RN	(!CK * !D)	-0.00001	0.00002	0.00004
	RN	(!CK * !D)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D)	0.00195	0.00222	0.00299

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7L	CK	RN	0.00286	0.00308	0.00379
	CK	RN	0.00000	0.00001	0.00004
	CK	RN	-0.00004	-0.00003	-0.00000
	CK	RN	0.00331	0.00352	0.00425
	RN	(CK * D)	0.00305	0.00332	0.00411
	RN	(CK * D)	-0.00003	0.00001	0.00005
	RN	(CK * D)	-0.00006	-0.00001	-0.00000
	RN	(CK * D)	0.00271	0.00297	0.00376
	RN	(CK * !D)	0.00306	0.00332	0.00411
	RN	(CK * !D)	-0.00003	0.00001	0.00005
	RN	(CK * !D)	-0.00004	-0.00001	0.00004
	RN	(CK * !D)	0.00267	0.00297	0.00375
	RN	(!CK * D)	0.00225	0.00254	0.00333
	RN	(!CK * D)	-0.00002	0.00002	0.00006
	RN	(!CK * D)	-0.00004	-0.00003	0.00002
	RN	(!CK * D)	0.00194	0.00223	0.00304
	RN	(!CK * !D)	0.00224	0.00254	0.00333
	RN	(!CK * !D)	-0.00002	0.00002	0.00005
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D)	0.00195	0.00222	0.00302

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7L	CK	RN	0.00286	0.00309	0.00393
	CK	RN	-0.00002	-0.00001	0.00002
	CK	RN	0.00000	0.00003	0.00004
	CK	RN	0.00316	0.00338	0.00422

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00360	0.00394	0.00520
	-0.00002	-0.00001	-0.00000
	0.00002	0.00003	0.00005
	0.00426	0.00462	0.00587

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00469	0.00517	0.00680
	0.00004	0.00005	0.00005
	-0.00003	-0.00002	-0.00002
	0.00408	0.00455	0.00617

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00151	0.00171	0.00248
	0.00002	0.00002	0.00003
	-0.00004	-0.00003	-0.00003
	0.00216	0.00237	0.00314

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00198	0.00223	0.00311
	-0.00003	-0.00002	-0.00002
	0.00003	0.00004	0.00004
	0.00133	0.00157	0.00246

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00131	0.00171	0.00303
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00198	0.00237	0.00370

Passive power(pJ) for RN falling :

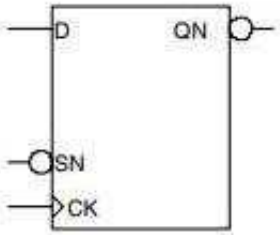
Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7L	0.00105	0.00149	0.00294
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00020	0.00064	0.00208

DFFSQNX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX1H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX1H7L	0.00088	0.00091	0.00075	0.06111

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX1H7L	0.00000	6.26768	7.51147

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7L	CK->QN (RR)	-	0.10222	0.23725	0.56261

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7L	CK->QN (RF)	-	0.10018	0.19557	0.40854
	SN->QN (FF)	(CK * D)	0.08758	0.19798	0.45961
	SN->QN (FF)	(CK * !D)	0.08758	0.19798	0.45961
	SN->QN (FF)	(!CK * D)	0.07975	0.18867	0.44697
	SN->QN (FF)	(!CK * !D)	0.08108	0.19079	0.45123

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7L	**hold**	**CK (R)**	-0.01142	0.01310	0.03632
	setup	**CK (R)**	-0.01016	0.01576	0.04331

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7L	**hold**	**CK (R)**	-0.11678	-0.04931	-0.01529
	setup	**CK (R)**	0.03831	0.07865	0.14798

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX1H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7L	**hold**	**CK (R)**	-0.01726	0.01320	0.04490
	setup	**CK (R)**	0.02354	0.04843	0.07411

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7L	CK	-	0.00322	0.00351	0.00453
	CK	-	-0.00005	-0.00003	-0.00001
	CK	-	0.00003	0.00005	0.00006
	CK	-	0.00372	0.00401	0.00502

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7L	CK	-	0.00302	0.00334	0.00435
	CK	-	0.00001	0.00003	0.00007
	CK	-	-0.00006	-0.00005	-0.00003
	CK	-	0.00375	0.00407	0.00512
	SN	(CK * D)	0.00379	0.00408	0.00499
	SN	(CK * D)	0.00001	0.00002	0.00005
	SN	(CK * D)	-0.00001	-0.00001	0.00002
	SN	(CK * D)	0.00329	0.00359	0.00453
	SN	(CK * !D)	0.00379	0.00408	0.00499
	SN	(CK * !D)	0.00001	0.00002	0.00005
	SN	(CK * !D)	-0.00001	-0.00001	0.00002
	SN	(CK * !D)	0.00329	0.00359	0.00456
	SN	(!CK * D)	0.00265	0.00294	0.00386
	SN	(!CK * D)	0.00002	0.00005	0.00008
	SN	(!CK * D)	-0.00008	-0.00007	-0.00004
	SN	(!CK * D)	0.00225	0.00254	0.00352
	SN	(!CK * !D)	0.00268	0.00296	0.00389
	SN	(!CK * !D)	0.00002	0.00006	0.00009
	SN	(!CK * !D)	-0.00008	-0.00007	-0.00007
	SN	(!CK * !D)	0.00229	0.00258	0.00354

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(D * SN)	0.00136	0.00162	0.00251
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00000	0.00000
	(D * SN)	0.00198	0.00222	0.00312
	(D * !SN)	0.00134	0.00158	0.00248
	(D * !SN)	-0.00000	0.00000	0.00000
	(D * !SN)	-0.00000	-0.00000	0.00000
	(D * !SN)	0.00195	0.00219	0.00309
	(!D * SN)	0.00151	0.00176	0.00267
	(!D * SN)	-0.00001	-0.00000	0.00000
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00213	0.00238	0.00328
	(!D * !SN)	0.00262	0.00286	0.00376
	(!D * !SN)	-0.00001	-0.00000	0.00001
	(!D * !SN)	0.00002	0.00003	0.00003
	(!D * !SN)	0.00318	0.00344	0.00434

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(D * SN)	0.00354	0.00380	0.00478
	(D * SN)	-0.00000	-0.00000	0.00000
	(D * SN)	0.00005	0.00005	0.00006
	(D * SN)	0.00284	0.00312	0.00410
	(D * !SN)	0.00223	0.00252	0.00353
	(D * !SN)	-0.00000	0.00000	0.00001
	(D * !SN)	0.00000	0.00000	0.00001
	(D * !SN)	0.00162	0.00191	0.00291
	(!D * SN)	0.00313	0.00348	0.00467
	(!D * SN)	0.00003	0.00004	0.00004
	(!D * SN)	-0.00000	-0.00000	0.00000
	(!D * SN)	0.00259	0.00294	0.00413
	(!D * !SN)	0.00232	0.00266	0.00386
	(!D * !SN)	0.00005	0.00006	0.00007
	(!D * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SN)	0.00183	0.00217	0.00336

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(CK * SN)	0.00002	0.00038	0.00156
	(CK * SN)	0.00002	0.00002	0.00003
	(CK * SN)	-0.00003	-0.00003	-0.00002
	(CK * SN)	0.00068	0.00104	0.00223
	(CK * !SN)	0.00003	0.00038	0.00156
	(CK * !SN)	0.00003	0.00003	0.00003
	(CK * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !SN)	0.00069	0.00105	0.00223
	(!CK * SN)	0.00141	0.00177	0.00298
	(!CK * SN)	-0.00001	-0.00000	0.00001
	(!CK * SN)	0.00000	0.00002	0.00003
	(!CK * SN)	0.00200	0.00237	0.00357
	(!CK * !SN)	0.00148	0.00184	0.00304
	(!CK * !SN)	-0.00002	-0.00001	0.00000
	(!CK * !SN)	0.00002	0.00002	0.00003
	(!CK * !SN)	0.00206	0.00242	0.00363

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(CK * SN)	0.00079	0.00120	0.00249
	(CK * SN)	-0.00003	-0.00002	-0.00002
	(CK * SN)	0.00002	0.00003	0.00003
	(CK * SN)	0.00014	0.00053	0.00183
	(CK * !SN)	0.00079	0.00120	0.00250
	(CK * !SN)	-0.00003	-0.00003	-0.00003
	(CK * !SN)	0.00002	0.00002	0.00002
	(CK * !SN)	0.00013	0.00053	0.00183
	(!CK * SN)	0.00186	0.00227	0.00361
	(!CK * SN)	-0.00001	0.00000	0.00002
	(!CK * SN)	-0.00003	-0.00002	-0.00000
	(!CK * SN)	0.00127	0.00168	0.00302
	(!CK * !SN)	0.00114	0.00154	0.00287
	(!CK * !SN)	0.00005	0.00005	0.00006
	(!CK * !SN)	-0.00003	-0.00002	-0.00002
	(!CK * !SN)	0.00063	0.00104	0.00236

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(CK * D)	0.00010	0.00033	0.00114
	(CK * D)	0.00001	0.00002	0.00002
	(CK * D)	-0.00002	-0.00002	-0.00001
	(CK * D)	0.00066	0.00089	0.00170
	(CK * !D)	0.00010	0.00034	0.00114
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	0.00066	0.00090	0.00170
	(!CK * D)	0.00011	0.00034	0.00115
	(!CK * D)	0.00001	0.00001	0.00001
	(!CK * D)	-0.00002	-0.00002	-0.00001
	(!CK * D)	0.00066	0.00090	0.00171
	(!CK * !D)	0.00085	0.00108	0.00188
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00001	0.00001
	(!CK * !D)	0.00131	0.00154	0.00235

Passive power(pJ) for SN falling (conditional):

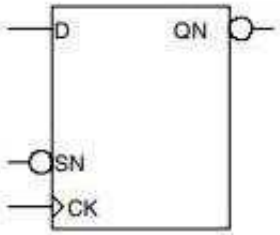
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7L	(CK * D)	0.00082	0.00107	0.00195
	(CK * D)	-0.00002	-0.00002	-0.00001
	(CK * D)	0.00001	0.00002	0.00002
	(CK * D)	0.00026	0.00051	0.00139
	(CK * !D)	0.00082	0.00107	0.00195
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	0.00026	0.00051	0.00139
	(!CK * D)	0.00081	0.00107	0.00195
	(!CK * D)	-0.00001	-0.00001	-0.00001
	(!CK * D)	0.00001	0.00002	0.00002
	(!CK * D)	0.00025	0.00051	0.00138
	(!CK * !D)	0.00083	0.00108	0.00196
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00002	0.00002
	(!CK * !D)	0.00027	0.00052	0.00139

DFFSQNX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX2H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX2H7L	0.00088	0.00105	0.00078	0.09049

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX2H7L	0.00000	7.13123	8.90568

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7L	CK->QN (RR)	-	0.10357	0.24008	0.56734

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7L	CK->QN (RF)	-	0.10180	0.19908	0.41390
	SN->QN (FF)	(CK * D)	0.08392	0.19579	0.45816
	SN->QN (FF)	(CK * !D)	0.08392	0.19579	0.45820
	SN->QN (FF)	(!CK * D)	0.07737	0.18785	0.44669
	SN->QN (FF)	(!CK * !D)	0.07832	0.18953	0.45012

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7L	**hold**	**CK (R)**	-0.00366	0.01862	0.04690
	setup	**CK (R)**	-0.01816	0.00974	0.03511

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7L	**hold**	**CK (R)**	-0.10762	-0.04457	-0.01361
	setup	**CK (R)**	0.03450	0.07343	0.14210

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX2H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7L	**hold**	**CK (R)**	-0.01726	0.01309	0.04713
	setup	**CK (R)**	0.02329	0.04866	0.07384

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7L	CK	-	0.00347	0.00378	0.00481
	CK	-	-0.00006	-0.00004	-0.00002
	CK	-	0.00006	0.00006	0.00007
	CK	-	0.00397	0.00427	0.00529

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7L	CK	-	0.00336	0.00369	0.00470
	CK	-	0.00002	0.00004	0.00008
	CK	-	-0.00007	-0.00006	-0.00006
	CK	-	0.00412	0.00442	0.00547
	SN	(CK * D)	0.00416	0.00445	0.00537
	SN	(CK * D)	-0.00001	0.00002	0.00006
	SN	(CK * D)	-0.00003	-0.00002	0.00002
	SN	(CK * D)	0.00367	0.00395	0.00489
	SN	(CK * !D)	0.00416	0.00445	0.00537
	SN	(CK * !D)	-0.00001	0.00002	0.00006
	SN	(CK * !D)	-0.00002	-0.00002	0.00001
	SN	(CK * !D)	0.00366	0.00395	0.00489
	SN	(!CK * D)	0.00299	0.00330	0.00424
	SN	(!CK * D)	0.00004	0.00006	0.00009
	SN	(!CK * D)	-0.00008	-0.00008	-0.00005
	SN	(!CK * D)	0.00258	0.00290	0.00389
	SN	(!CK * !D)	0.00301	0.00333	0.00427
	SN	(!CK * !D)	0.00004	0.00007	0.00009
	SN	(!CK * !D)	-0.00053	-0.00008	0.00038
	SN	(!CK * !D)	0.00222	0.00294	0.00391

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(D * SN)	0.00137	0.00162	0.00251
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00000	0.00000
	(D * SN)	0.00199	0.00223	0.00312
	(D * !SN)	0.00135	0.00158	0.00247
	(D * !SN)	0.00000	0.00000	0.00000
	(D * !SN)	-0.00000	-0.00000	0.00000
	(D * !SN)	0.00195	0.00220	0.00309
	(!D * SN)	0.00151	0.00176	0.00266
	(!D * SN)	-0.00001	-0.00000	0.00001
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00213	0.00238	0.00329
	(!D * !SN)	0.00261	0.00285	0.00375
	(!D * !SN)	-0.00001	-0.00000	0.00001
	(!D * !SN)	0.00003	0.00003	0.00004
	(!D * !SN)	0.00318	0.00343	0.00433

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(D * SN)	0.00356	0.00384	0.00482
	(D * SN)	-0.00000	-0.00000	0.00000
	(D * SN)	0.00005	0.00005	0.00006
	(D * SN)	0.00288	0.00315	0.00413
	(D * !SN)	0.00227	0.00255	0.00355
	(D * !SN)	-0.00000	-0.00000	0.00000
	(D * !SN)	0.00000	0.00001	0.00001
	(D * !SN)	0.00165	0.00193	0.00293
	(!D * SN)	0.00316	0.00351	0.00471
	(!D * SN)	0.00004	0.00004	0.00005
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00262	0.00297	0.00417
	(!D * !SN)	0.00235	0.00269	0.00389
	(!D * !SN)	0.00005	0.00006	0.00007
	(!D * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SN)	0.00185	0.00220	0.00340

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(CK * SN)	-0.00001	0.00048	0.00208
	(CK * SN)	0.00003	0.00003	0.00003
	(CK * SN)	-0.00003	-0.00003	-0.00002
	(CK * SN)	0.00078	0.00127	0.00287
	(CK * !SN)	0.00000	0.00049	0.00208
	(CK * !SN)	0.00004	0.00004	0.00004
	(CK * !SN)	-0.00003	-0.00003	-0.00002
	(CK * !SN)	0.00077	0.00127	0.00287
	(!CK * SN)	0.00140	0.00189	0.00350
	(!CK * SN)	0.00000	0.00000	0.00001
	(!CK * SN)	0.00000	0.00002	0.00002
	(!CK * SN)	0.00209	0.00260	0.00421
	(!CK * !SN)	0.00146	0.00196	0.00357
	(!CK * !SN)	-0.00001	-0.00000	0.00001
	(!CK * !SN)	0.00000	0.00002	0.00003
	(!CK * !SN)	0.00216	0.00266	0.00427

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(CK * SN)	0.00087	0.00143	0.00317
	(CK * SN)	-0.00003	-0.00003	-0.00003
	(CK * SN)	0.00002	0.00003	0.00003
	(CK * SN)	0.00009	0.00064	0.00238
	(CK * !SN)	0.00087	0.00142	0.00318
	(CK * !SN)	-0.00004	-0.00004	-0.00003
	(CK * !SN)	0.00003	0.00003	0.00003
	(CK * !SN)	0.00008	0.00064	0.00239
	(!CK * SN)	0.00195	0.00251	0.00429
	(!CK * SN)	-0.00001	-0.00000	0.00000
	(!CK * SN)	-0.00002	-0.00001	0.00000
	(!CK * SN)	0.00124	0.00180	0.00358
	(!CK * !SN)	0.00123	0.00178	0.00355
	(!CK * !SN)	0.00004	0.00004	0.00004
	(!CK * !SN)	-0.00003	-0.00002	-0.00000
	(!CK * !SN)	0.00063	0.00117	0.00293

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(CK * D)	0.00010	0.00032	0.00113
	(CK * D)	0.00001	0.00002	0.00002
	(CK * D)	-0.00002	-0.00002	-0.00001
	(CK * D)	0.00066	0.00089	0.00170
	(CK * !D)	0.00010	0.00033	0.00113
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	0.00066	0.00089	0.00170
	(!CK * D)	0.00010	0.00033	0.00113
	(!CK * D)	0.00001	0.00001	0.00001
	(!CK * D)	-0.00002	-0.00002	-0.00001
	(!CK * D)	0.00067	0.00090	0.00170
	(!CK * !D)	0.00084	0.00107	0.00187
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00001	0.00001
	(!CK * !D)	0.00131	0.00154	0.00234

Passive power(pJ) for SN falling (conditional):

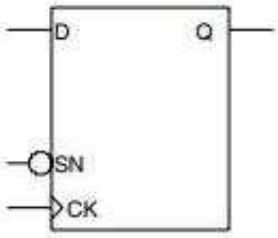
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7L	(CK * D)	0.00085	0.00110	0.00198
	(CK * D)	-0.00002	-0.00002	-0.00001
	(CK * D)	0.00001	0.00002	0.00002
	(CK * D)	0.00028	0.00053	0.00141
	(CK * !D)	0.00085	0.00111	0.00198
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	0.00028	0.00053	0.00141
	(!CK * D)	0.00085	0.00110	0.00197
	(!CK * D)	-0.00001	-0.00001	-0.00001
	(!CK * D)	0.00001	0.00002	0.00002
	(!CK * D)	0.00028	0.00053	0.00140
	(!CK * !D)	0.00086	0.00111	0.00198
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00002	0.00002
	(!CK * !D)	0.00029	0.00054	0.00141

DFFSQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX1H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX1H7L	0.00088	0.00090	0.00074	0.06111

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX1H7L	0.00000	6.34662	8.06637

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7L	CK->Q (RR)	SN	0.08181	0.22003	0.54351
	SN->Q (FR)	(CK * D)	0.06537	0.22094	0.59467
	SN->Q (FR)	(CK * !D)	0.06537	0.22094	0.59467
	SN->Q (FR)	(!CK * D)	0.06067	0.21053	0.57995
	SN->Q (FR)	(!CK * !D)	0.06184	0.21238	0.58297

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7L	CK->Q (RF)	SN	0.08588	0.20561	0.44214

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7L	**hold**	**CK (R)**	-0.00831	0.01498	0.03882
	setup	**CK (R)**	-0.01109	0.01736	0.04520

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7L	**hold**	**CK (R)**	-0.11432	-0.04839	-0.01533
	setup	**CK (R)**	0.03731	0.07914	0.14872

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7L	**recovery**	**CK (R)**	0.02333	0.04999	0.07459
	removal	**CK (R)**	0.04805	0.07690	0.12305

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7L	CK	SN	0.00300	0.00329	0.00431
	CK	SN	-0.00001	0.00000	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00363	0.00392	0.00492
	SN	(CK * D)	0.00373	0.00400	0.00494
	SN	(CK * D)	-0.00006	-0.00002	0.00001
	SN	(CK * D)	-0.00002	0.00003	0.00007
	SN	(CK * D)	0.00311	0.00342	0.00436
	SN	(CK * !D)	0.00371	0.00400	0.00494
	SN	(CK * !D)	-0.00003	-0.00002	0.00002
	SN	(CK * !D)	0.00002	0.00003	0.00008
	SN	(CK * !D)	0.00311	0.00342	0.00437
	SN	(!CK * D)	0.00254	0.00285	0.00381
	SN	(!CK * D)	-0.00003	0.00001	0.00006
	SN	(!CK * D)	-0.00003	-0.00003	-0.00003
	SN	(!CK * D)	0.00209	0.00236	0.00331
	SN	(!CK * !D)	0.00261	0.00288	0.00383
	SN	(!CK * !D)	0.00002	0.00002	0.00004
	SN	(!CK * !D)	-0.00009	-0.00002	0.00072
	SN	(!CK * !D)	0.00209	0.00239	0.00337

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7L	CK	SN	0.00320	0.00351	0.00463
	CK	SN	-0.00001	0.00000	0.00001
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00379	0.00410	0.00522

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00252	0.00278	0.00370
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00308	0.00332	0.00424

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00358	0.00385	0.00483
	0.00000	0.00000	0.00000
	0.00005	0.00005	0.00006
	0.00289	0.00317	0.00414

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00150	0.00186	0.00306
	-0.00001	-0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00207	0.00244	0.00365

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00185	0.00227	0.00360
	0.00000	0.00000	0.00001
	-0.00003	-0.00002	-0.00001
	0.00127	0.00168	0.00301

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00087	0.00111	0.00191
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00133	0.00156	0.00237

Passive power(pJ) for SN falling :

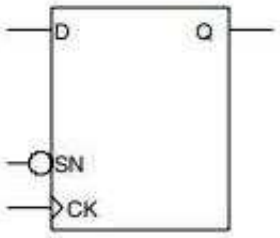
Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7L	0.00080	0.00106	0.00193
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00025	0.00050	0.00138

DFFSQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX2H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX2H7L	0.00088	0.00105	0.00075	0.09039

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX2H7L	0.00000	7.31763	9.42213

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7L	CK->Q (RR)	SN	0.08334	0.22405	0.55134
	SN->Q (FR)	(CK * D)	0.06104	0.21672	0.59154
	SN->Q (FR)	(CK * !D)	0.06103	0.21672	0.59132
	SN->Q (FR)	(!CK * D)	0.05770	0.20852	0.57932
	SN->Q (FR)	(!CK * !D)	0.05854	0.20993	0.58145

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7L	CK->Q (RF)	SN	0.09256	0.21798	0.45955

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7L	**hold**	**CK (R)**	-0.00365	0.02008	0.04701
	setup	**CK (R)**	-0.01618	0.01218	0.03897

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7L	**hold**	**CK (R)**	-0.10694	-0.04321	-0.01220
	setup	**CK (R)**	0.03315	0.07258	0.13991

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7L	**recovery**	**CK (R)**	0.02247	0.04727	0.07351
	removal	**CK (R)**	0.04426	0.07197	0.11338

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7L	CK	SN	0.00322	0.00355	0.00468
	CK	SN	-0.00000	0.00000	0.00004
	CK	SN	-0.00001	-0.00001	0.00000
	CK	SN	0.00389	0.00419	0.00521
	SN	(CK * D)	0.00397	0.00429	0.00527
	SN	(CK * D)	-0.00008	-0.00003	0.00001
	SN	(CK * D)	0.00001	0.00004	0.00009
	SN	(CK * D)	0.00340	0.00370	0.00468
	SN	(CK * !D)	0.00397	0.00429	0.00527
	SN	(CK * !D)	-0.00003	-0.00003	0.00002
	SN	(CK * !D)	0.00000	0.00004	0.00009
	SN	(CK * !D)	0.00340	0.00370	0.00468
	SN	(!CK * D)	0.00280	0.00313	0.00413
	SN	(!CK * D)	-0.00002	0.00001	0.00005
	SN	(!CK * D)	-0.00002	-0.00002	0.00004
	SN	(!CK * D)	0.00231	0.00264	0.00362
	SN	(!CK * !D)	0.00287	0.00316	0.00415
	SN	(!CK * !D)	-0.00001	0.00001	0.00002
	SN	(!CK * !D)	-0.00007	-0.00003	0.00003
	SN	(!CK * !D)	0.00238	0.00268	0.00367

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7L	CK	SN	0.00358	0.00397	0.00528
	CK	SN	0.00000	0.00000	0.00000
	CK	SN	0.00000	0.00001	0.00001
	CK	SN	0.00417	0.00456	0.00587

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00254	0.00279	0.00371
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00308	0.00333	0.00425

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00359	0.00386	0.00483
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00290	0.00317	0.00414

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00148	0.00197	0.00358
	0.00000	0.00000	0.00001
	0.00000	0.00002	0.00003
	0.00217	0.00266	0.00428

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00196	0.00251	0.00429
	-0.00001	-0.00000	0.00000
	-0.00003	-0.00001	-0.00000
	0.00125	0.00181	0.00359

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00087	0.00111	0.00191
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00135	0.00158	0.00238

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7L	0.00082	0.00108	0.00195
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00025	0.00051	0.00138

DFFSRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
CK	D	RN	SN	Q
R	0	1	1	0
R	1	1	1	1
x	x	x	0	1
x	x	0	1	0
x	x	1	1	IQ

Footprint

Cell Name	Area
DFFSRQX1H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	RN	SN	Q
DFFSRQX1H7L	0.00082	0.00069	0.00077	0.00075	0.06160

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSRQX1H7L	0.00000	5.06477	7.23364

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSRQX1H7L	CK->Q (RR)	(RN * SN)	0.13987	0.27825	0.60899
	SN->Q (FR)	(CK * D * RN)	0.10302	0.26900	0.67978
	SN->Q (FR)	(CK * D * !RN)	0.10737	0.27490	0.69122
	SN->Q (FR)	(CK * !D * RN)	0.10302	0.26899	0.67947
	SN->Q (FR)	(CK * !D * !RN)	0.10737	0.27489	0.69122
	SN->Q (FR)	(!CK * D * RN)	0.08910	0.24928	0.64407
	SN->Q (FR)	(!CK * D * !RN)	0.09294	0.25655	0.66132
	SN->Q (FR)	(!CK * !D * RN)	0.09649	0.25973	0.66249
	SN->Q (FR)	(!CK * !D * !RN)	0.10484	0.27133	0.68460

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSRQX1H7L	CK->Q (RF)	(RN * SN)	0.11885	0.21849	0.43644
	RN->Q (FF)	(CK * D * SN)	0.11977	0.23301	0.50005
	RN->Q (FF)	(CK * !D * SN)	0.11977	0.23302	0.50004
	RN->Q (FF)	(!CK * D * SN)	0.10868	0.22116	0.48766
	RN->Q (FF)	(!CK * !D * SN)	0.10434	0.21632	0.48180

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX1H7L	**hold**	**CK (R)**	-0.03947	-0.01624	-0.00180
	setup	**CK (R)**	0.02489	0.05046	0.08049

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX1H7L	**hold**	**CK (R)**	-0.10342	-0.01169	0.04136
	setup	**CK (R)**	-0.01302	0.05636	0.17254

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFSRQX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX1H7L	**recovery**	**CK (R)**	0.01432	0.04228	0.06568
	removal	**CK (R)**	0.05168	0.08223	0.12602

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX1H7L	recovery	CK (R)	-0.07358	-0.01820	0.07065
	removal	CK (R)	0.08755	0.13080	0.20693
	hold	RN (R)	-0.14801	-0.07849	-0.03823
	setup	RN (R)	0.07383	0.11780	0.19709

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSRQX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

DFFSRQX1H7L	**CK**	**(RN * SN)**	0.00406	0.00432	0.00528
	CK	**(RN * SN)**	-0.00006	-0.00004	-0.00004
	CK	**(RN * SN)**	0.00004	0.00005	0.00008
	CK	**(RN * SN)**	0.00441	0.00468	0.00561
	SN	**(CK * D * RN)**	0.00412	0.00437	0.00514
	SN	**(CK * D * RN)**	-0.00006	-0.00003	0.00001
	SN	**(CK * D * RN)**	0.00003	0.00006	0.00009
	SN	**(CK * D * RN)**	0.00348	0.00374	0.00451
	SN	**(CK * D * !RN)**	0.00417	0.00444	0.00533
	SN	**(CK * D * !RN)**	-0.00008	-0.00004	0.00001
	SN	**(CK * D * !RN)**	0.00005	0.00009	0.00012
	SN	**(CK * D * !RN)**	0.00343	0.00372	0.00461
	SN	**(CK * !D * RN)**	0.00412	0.00437	0.00513
	SN	**(CK * !D * RN)**	-0.00006	-0.00003	0.00000
	SN	**(CK * !D * RN)**	0.00003	0.00006	0.00008
	SN	**(CK * !D * RN)**	0.00348	0.00374	0.00451
	SN	**(CK * !D * !RN)**	0.00416	0.00443	0.00532
	SN	**(CK * !D * !RN)**	-0.00007	-0.00003	0.00002
	SN	**(CK * !D * !RN)**	0.00005	0.00009	0.00011
	SN	**(CK * !D * !RN)**	0.00343	0.00373	0.00461
	SN	**(!CK * D * RN)**	0.00257	0.00278	0.00348
	SN	**(!CK * D * RN)**	-0.00011	-0.00007	-0.00007
	SN	**(!CK * D * RN)**	0.00006	0.00012	0.00016
	SN	**(!CK * D * RN)**	0.00183	0.00207	0.00274
	SN	**(!CK * D * !RN)**	0.00350	0.00375	0.00456
	SN	**(!CK * D * !RN)**	-0.00017	-0.00015	-0.00012
	SN	**(!CK * D * !RN)**	0.00018	0.00018	0.00023
	SN	**(!CK * D * !RN)**	0.00258	0.00282	0.00363
	SN	**(!CK * !D * RN)**	0.00265	0.00287	0.00356
	SN	**(!CK * !D * RN)**	-0.00012	-0.00008	-0.00004
	SN	**(!CK * !D * RN)**	0.00009	0.00012	0.00014
	SN	**(!CK * !D * RN)**	0.00194	0.00214	0.00280
	SN	**(!CK * !D * !RN)**	0.00286	0.00311	0.00386
	SN	**(!CK * !D * !RN)**	-0.00010	-0.00010	-0.00006
	SN	**(!CK * !D * !RN)**	0.00017	0.00018	0.00018
	SN	**(!CK * !D * !RN)**	0.00202	0.00224	0.00299

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSRQX1H7L	CK	(RN * SN)	0.00356	0.00385	0.00484
	CK	(RN * SN)	0.00004	0.00004	0.00006
	CK	(RN * SN)	-0.00006	-0.00005	-0.00004
	CK	(RN * SN)	0.00435	0.00465	0.00568
	RN	(CK * D * SN)	0.00423	0.00451	0.00542
	RN	(CK * D * SN)	-0.00000	0.00003	0.00007
	RN	(CK * D * SN)	-0.00003	-0.00001	0.00003
	RN	(CK * D * SN)	0.00388	0.00416	0.00507
	RN	(CK * !D * SN)	0.00423	0.00452	0.00542
	RN	(CK * !D * SN)	-0.00000	0.00003	0.00007
	RN	(CK * !D * SN)	-0.00004	-0.00001	0.00003
	RN	(CK * !D * SN)	0.00389	0.00416	0.00509
	RN	(!CK * D * SN)	0.00314	0.00344	0.00436
	RN	(!CK * D * SN)	0.00004	0.00008	0.00016
	RN	(!CK * D * SN)	-0.00009	0.00001	0.00200
	RN	(!CK * D * SN)	0.00103	0.00310	0.00410
	RN	(!CK * !D * SN)	0.00312	0.00340	0.00431
	RN	(!CK * !D * SN)	0.00005	0.00007	0.00010
	RN	(!CK * !D * SN)	-0.00011	-0.00007	-0.00004
	RN	(!CK * !D * SN)	0.00285	0.00312	0.00407

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00367	0.00389	0.00472
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00002
	0.00421	0.00443	0.00526

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00345	0.00378	0.00495
	0.00002	0.00003	0.00004
	-0.00002	-0.00000	0.00000
	0.00295	0.00328	0.00445

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00116	0.00132	0.00189
	0.00002	0.00002	0.00003
	-0.00004	-0.00004	-0.00003
	0.00171	0.00186	0.00243

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00171	0.00187	0.00247
	-0.00003	-0.00002	-0.00002
	0.00003	0.00004	0.00004
	0.00116	0.00133	0.00193

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00088	0.00113	0.00196
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00130	0.00155	0.00238

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00108	0.00135	0.00225
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00011
	0.00033	0.00060	0.00151

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00043	0.00043	0.00043
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00103	0.00103	0.00104

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX1H7L	0.00015	0.00016	0.00017
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00023	-0.00022	-0.00021

DFFSRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT				OUTPUT
CK	D	RN	SN	Q
R	0	1	1	0
R	1	1	1	1
x	x	x	0	1
x	x	0	1	0
x	x	1	1	IQ

Footprint

Cell Name	Area
DFFSRQX2H7L	8.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	RN	SN	Q
DFFSRQX2H7L	0.00082	0.00069	0.00078	0.00076	0.08314

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSRQX2H7L	0.00000	5.31912	7.60454

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSRQX2H7L	CK->Q (RR)	(RN * SN)	0.13831	0.27772	0.60915
	SN->Q (FR)	(CK * D * RN)	0.10213	0.26846	0.67786
	SN->Q (FR)	(CK * D * !RN)	0.10647	0.27436	0.68993
	SN->Q (FR)	(CK * !D * RN)	0.10213	0.26846	0.67792
	SN->Q (FR)	(CK * !D * !RN)	0.10647	0.27436	0.68994
	SN->Q (FR)	(!CK * D * RN)	0.08832	0.24861	0.64092
	SN->Q (FR)	(!CK * D * !RN)	0.09207	0.25583	0.65879
	SN->Q (FR)	(!CK * !D * RN)	0.09562	0.25924	0.66037
	SN->Q (FR)	(!CK * !D * !RN)	0.10405	0.27066	0.68264

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSRQX2H7L	CK->Q (RF)	(RN * SN)	0.12169	0.22096	0.43548
	RN->Q (FF)	(CK * D * SN)	0.12544	0.23808	0.50067
	RN->Q (FF)	(CK * !D * SN)	0.12544	0.23807	0.50067
	RN->Q (FF)	(!CK * D * SN)	0.11379	0.22545	0.48749
	RN->Q (FF)	(!CK * !D * SN)	0.10825	0.21951	0.48039

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX2H7L	**hold**	**CK (R)**	-0.03703	-0.01539	-0.00137
	setup	**CK (R)**	0.02449	0.05096	0.08337

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX2H7L	**hold**	**CK (R)**	-0.10160	-0.01103	0.04086
	setup	**CK (R)**	-0.01270	0.05815	0.17603

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFSRQX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX2H7L	**recovery**	**CK (R)**	0.01607	0.04420	0.07061
	removal	**CK (R)**	0.05168	0.08263	0.12602

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSRQX2H7L	recovery	CK (R)	-0.07045	-0.00905	0.09505
	removal	CK (R)	0.08406	0.12619	0.19470
	hold	RN (R)	-0.16774	-0.08825	-0.04437
	setup	RN (R)	0.08000	0.12888	0.21486

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSRQX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

DFFSRQX2H7L	**CK**	**(RN * SN)**	0.00420	0.00446	0.00539
	CK	**(RN * SN)**	-0.00007	-0.00005	-0.00002
	CK	**(RN * SN)**	0.00003	0.00006	0.00009
	CK	**(RN * SN)**	0.00452	0.00479	0.00571
	SN	**(CK * D * RN)**	0.00427	0.00450	0.00527
	SN	**(CK * D * RN)**	-0.00008	-0.00003	-0.00000
	SN	**(CK * D * RN)**	0.00000	0.00006	0.00012
	SN	**(CK * D * RN)**	0.00357	0.00386	0.00463
	SN	**(CK * D * !RN)**	0.00433	0.00458	0.00547
	SN	**(CK * D * !RN)**	-0.00009	-0.00004	0.00001
	SN	**(CK * D * !RN)**	0.00009	0.00009	0.00010
	SN	**(CK * D * !RN)**	0.00362	0.00387	0.00476
	SN	**(CK * !D * RN)**	0.00427	0.00450	0.00527
	SN	**(CK * !D * RN)**	-0.00008	-0.00004	0.00000
	SN	**(CK * !D * RN)**	0.00000	0.00006	0.00012
	SN	**(CK * !D * RN)**	0.00357	0.00386	0.00463
	SN	**(CK * !D * !RN)**	0.00433	0.00458	0.00547
	SN	**(CK * !D * !RN)**	-0.00008	-0.00004	-0.00000
	SN	**(CK * !D * !RN)**	0.00006	0.00009	0.00010
	SN	**(CK * !D * !RN)**	0.00362	0.00387	0.00476
	SN	**(!CK * D * RN)**	0.00273	0.00293	0.00356
	SN	**(!CK * D * RN)**	-0.00008	-0.00007	-0.00007
	SN	**(!CK * D * RN)**	0.00008	0.00012	0.00014
	SN	**(!CK * D * RN)**	0.00201	0.00222	0.00286
	SN	**(!CK * D * !RN)**	0.00368	0.00392	0.00472
	SN	**(!CK * D * !RN)**	-0.00021	-0.00015	-0.00012
	SN	**(!CK * D * !RN)**	0.00016	0.00019	0.00024
	SN	**(!CK * D * !RN)**	0.00275	0.00299	0.00379
	SN	**(!CK * !D * RN)**	0.00283	0.00302	0.00365
	SN	**(!CK * !D * RN)**	-0.00013	-0.00008	-0.00005
	SN	**(!CK * !D * RN)**	0.00009	0.00013	0.00017
	SN	**(!CK * !D * RN)**	0.00205	0.00228	0.00291
	SN	**(!CK * !D * !RN)**	0.00301	0.00328	0.00401
	SN	**(!CK * !D * !RN)**	-0.00016	-0.00011	-0.00006
	SN	**(!CK * !D * !RN)**	0.00018	0.00018	0.00018
	SN	**(!CK * !D * !RN)**	0.00219	0.00242	0.00315

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSRQX2H7L	CK	(RN * SN)	0.00377	0.00406	0.00505
	CK	(RN * SN)	0.00002	0.00005	0.00007
	CK	(RN * SN)	-0.00008	-0.00006	-0.00003
	CK	(RN * SN)	0.00460	0.00490	0.00592
	RN	(CK * D * SN)	0.00445	0.00473	0.00564
	RN	(CK * D * SN)	0.00000	0.00004	0.00006
	RN	(CK * D * SN)	-0.00006	-0.00002	0.00001
	RN	(CK * D * SN)	0.00411	0.00438	0.00530
	RN	(CK * !D * SN)	0.00446	0.00473	0.00564
	RN	(CK * !D * SN)	-0.00000	0.00004	0.00004
	RN	(CK * !D * SN)	-0.00005	-0.00002	0.00001
	RN	(CK * !D * SN)	0.00411	0.00438	0.00530
	RN	(!CK * D * SN)	0.00334	0.00362	0.00453
	RN	(!CK * D * SN)	0.00004	0.00008	0.00013
	RN	(!CK * D * SN)	-0.00013	-0.00008	-0.00005
	RN	(!CK * D * SN)	0.00305	0.00336	0.00428
	RN	(!CK * !D * SN)	0.00330	0.00357	0.00448
	RN	(!CK * !D * SN)	0.00004	0.00008	0.00012
	RN	(!CK * !D * SN)	-0.00010	-0.00007	-0.00003
	RN	(!CK * !D * SN)	0.00299	0.00329	0.00422

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00367	0.00389	0.00472
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00002
	0.00423	0.00445	0.00527

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00346	0.00380	0.00497
	0.00002	0.00003	0.00004
	-0.00002	-0.00000	0.00000
	0.00295	0.00329	0.00446

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00124	0.00140	0.00196
	0.00002	0.00002	0.00003
	-0.00005	-0.00004	-0.00003
	0.00179	0.00195	0.00249

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00171	0.00187	0.00247
	-0.00003	-0.00002	-0.00002
	0.00003	0.00004	0.00005
	0.00116	0.00133	0.00193

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00088	0.00112	0.00195
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00133	0.00157	0.00240

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00110	0.00137	0.00227
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00011
	0.00036	0.00062	0.00151

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00042	0.00042	0.00042
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00099	0.00099	0.00100

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSRQX2H7L	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00021	-0.00020	-0.00018

DFFSX0P5H7L

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX0P5H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX0P5H7L	0.00092	0.00074	0.00077	0.06291	0.06296

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX0P5H7L	0.00000	5.23856	7.54945

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7L	CK->Q (RR)	SN	0.09015	0.22366	0.54659
	SN->Q (FR)	(CK * D)	0.08333	0.24382	0.64048
	SN->Q (FR)	(CK * !D)	0.08333	0.24381	0.64048
	SN->Q (FR)	(!CK * D)	0.07291	0.22792	0.60927
	SN->Q (FR)	(!CK * !D)	0.07718	0.23515	0.62343

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7L	CK->Q (RF)	SN	0.10395	0.20410	0.42988

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7L	CK->QN (RR)	SN	0.07874	0.21957	0.54344

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7L	CK->QN (RF)	SN	0.06258	0.17114	0.40667
	SN->QN (FF)	(CK * D)	0.05396	0.19259	0.50996
	SN->QN (FF)	(CK * !D)	0.05396	0.19259	0.50993
	SN->QN (FF)	(!CK * D)	0.04601	0.17282	0.46743
	SN->QN (FF)	(!CK * !D)	0.04969	0.17988	0.48056

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7L	**hold**	**CK (R)**	-0.04001	-0.01202	0.00103
	setup	**CK (R)**	0.01482	0.03637	0.06620

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7L	**hold**	**CK (R)**	-0.07490	-0.00287	0.03772
	setup	**CK (R)**	-0.01334	0.04636	0.15217

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7L	**recovery**	**CK (R)**	-0.06324	-0.00284	0.13710
	removal	**CK (R)**	0.05484	0.08523	0.13623

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7L	CK	SN	0.00178	0.00197	0.00257
	CK	SN	-0.00003	-0.00002	0.00000
	CK	SN	0.00001	0.00001	0.00003
	CK	SN	0.00207	0.00225	0.00286
	SN	(CK * D)	0.00200	0.00216	0.00285
	SN	(CK * D)	-0.00001	-0.00001	-0.00001
	SN	(CK * D)	0.00001	0.00001	0.00001
	SN	(CK * D)	0.00170	0.00187	0.00256
	SN	(CK * !D)	0.00200	0.00216	0.00285
	SN	(CK * !D)	-0.00001	-0.00001	-0.00001
	SN	(CK * !D)	0.00001	0.00001	0.00001
	SN	(CK * !D)	0.00170	0.00187	0.00256
	SN	(!CK * D)	0.00140	0.00157	0.00213
	SN	(!CK * D)	-0.00005	-0.00003	-0.00000
	SN	(!CK * D)	0.00002	0.00003	0.00006
	SN	(!CK * D)	0.00106	0.00124	0.00181
	SN	(!CK * !D)	0.00148	0.00164	0.00221
	SN	(!CK * !D)	-0.00005	-0.00003	-0.00003
	SN	(!CK * !D)	0.00002	0.00004	0.00006
	SN	(!CK * !D)	0.00115	0.00130	0.00187

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7L	CK	SN	0.00190	0.00210	0.00272
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	-0.00000
	CK	SN	0.00230	0.00249	0.00312

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7L	CK	SN	0.00192	0.00210	0.00273
	CK	SN	0.00000	0.00002	0.00002
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00231	0.00250	0.00314

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7L	CK	SN	0.00178	0.00197	0.00258
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00207	0.00225	0.00287
	SN	(CK * D)	0.00199	0.00216	0.00284
	SN	(CK * D)	-0.00003	-0.00001	0.00001
	SN	(CK * D)	-0.00000	0.00001	0.00003
	SN	(CK * D)	0.00169	0.00187	0.00256
	SN	(CK * !D)	0.00198	0.00216	0.00284
	SN	(CK * !D)	-0.00003	-0.00001	0.00001
	SN	(CK * !D)	-0.00000	0.00001	0.00003
	SN	(CK * !D)	0.00170	0.00187	0.00256
	SN	(!CK * D)	0.00141	0.00156	0.00212
	SN	(!CK * D)	-0.00003	-0.00003	-0.00001
	SN	(!CK * D)	0.00002	0.00003	0.00005
	SN	(!CK * D)	0.00108	0.00124	0.00181
	SN	(!CK * !D)	0.00148	0.00164	0.00220
	SN	(!CK * !D)	-0.00004	-0.00003	-0.00001
	SN	(!CK * !D)	0.00002	0.00004	0.00006
	SN	(!CK * !D)	0.00114	0.00130	0.00186

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00274	0.00302	0.00405
	-0.00000	0.00001	0.00002
	0.00001	0.00002	0.00003
	0.00339	0.00367	0.00470

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00366	0.00406	0.00545
	0.00003	0.00003	0.00004
	-0.00003	-0.00002	-0.00001
	0.00308	0.00349	0.00488

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00125	0.00144	0.00212
	0.00002	0.00003	0.00003
	-0.00004	-0.00003	-0.00002
	0.00181	0.00199	0.00267

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00156	0.00177	0.00253
	-0.00003	-0.00002	-0.00002
	0.00003	0.00003	0.00004
	0.00100	0.00122	0.00197

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00029	0.00030	0.00030
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00094	0.00095	0.00095

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7L	0.00017	0.00017	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00031	-0.00030	-0.00029

DFFSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX1H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX1H7L	0.00092	0.00074	0.00075	0.07468	0.07523

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX1H7L	0.00000	5.49600	7.96389

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7L	CK->Q (RR)	SN	0.08948	0.22308	0.54639
	SN->Q (FR)	(CK * D)	0.08444	0.24546	0.64345
	SN->Q (FR)	(CK * !D)	0.08444	0.24546	0.64346
	SN->Q (FR)	(!CK * D)	0.07350	0.22890	0.61148
	SN->Q (FR)	(!CK * !D)	0.07794	0.23622	0.62557

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7L	CK->Q (RF)	SN	0.10346	0.20411	0.43140

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7L	CK->QN (RR)	SN	0.07721	0.21935	0.54549

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7L	CK->QN (RF)	SN	0.06177	0.17169	0.40982
	SN->QN (FF)	(CK * D)	0.05453	0.19558	0.51748
	SN->QN (FF)	(CK * !D)	0.05454	0.19558	0.51746
	SN->QN (FF)	(!CK * D)	0.04615	0.17510	0.47379
	SN->QN (FF)	(!CK * !D)	0.04999	0.18225	0.48697

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7L	**hold**	**CK (R)**	-0.03899	-0.01274	-0.00006
	setup	**CK (R)**	0.01647	0.03723	0.06659

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7L	**hold**	**CK (R)**	-0.07382	-0.00240	0.04028
	setup	**CK (R)**	-0.01358	0.04604	0.15217

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7L	**recovery**	**CK (R)**	-0.06329	-0.00240	0.14413
	removal	**CK (R)**	0.05520	0.08550	0.13725

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7L	CK	SN	0.00189	0.00207	0.00269
	CK	SN	-0.00003	-0.00002	0.00000
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00218	0.00236	0.00298
	SN	(CK * D)	0.00211	0.00228	0.00302
	SN	(CK * D)	-0.00001	-0.00001	-0.00001
	SN	(CK * D)	0.00001	0.00002	0.00002
	SN	(CK * D)	0.00182	0.00199	0.00274
	SN	(CK * !D)	0.00211	0.00228	0.00302
	SN	(CK * !D)	-0.00001	-0.00001	-0.00001
	SN	(CK * !D)	0.00001	0.00002	0.00002
	SN	(CK * !D)	0.00182	0.00199	0.00274
	SN	(!CK * D)	0.00149	0.00167	0.00227
	SN	(!CK * D)	-0.00007	-0.00003	-0.00000
	SN	(!CK * D)	0.00002	0.00003	0.00005
	SN	(!CK * D)	0.00118	0.00134	0.00195
	SN	(!CK * !D)	0.00157	0.00174	0.00235
	SN	(!CK * !D)	-0.00007	-0.00003	-0.00001
	SN	(!CK * !D)	-0.00000	0.00004	0.00005
	SN	(!CK * !D)	0.00124	0.00141	0.00201

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7L	CK	SN	0.00200	0.00220	0.00282
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00239	0.00260	0.00321

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7L	CK	SN	0.00200	0.00220	0.00284
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00001
	CK	SN	0.00240	0.00260	0.00324

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7L	CK	SN	0.00188	0.00207	0.00269
	CK	SN	-0.00003	-0.00002	0.00000
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00216	0.00235	0.00298
	SN	(CK * D)	0.00210	0.00228	0.00302
	SN	(CK * D)	-0.00004	-0.00001	0.00001
	SN	(CK * D)	0.00000	0.00002	0.00003
	SN	(CK * D)	0.00181	0.00199	0.00274
	SN	(CK * !D)	0.00210	0.00228	0.00302
	SN	(CK * !D)	-0.00003	-0.00001	0.00001
	SN	(CK * !D)	0.00001	0.00002	0.00003
	SN	(CK * !D)	0.00181	0.00199	0.00274
	SN	(!CK * D)	0.00150	0.00166	0.00226
	SN	(!CK * D)	-0.00004	-0.00003	-0.00003
	SN	(!CK * D)	0.00002	0.00003	0.00005
	SN	(!CK * D)	0.00118	0.00134	0.00195
	SN	(!CK * !D)	0.00158	0.00174	0.00234
	SN	(!CK * !D)	-0.00005	-0.00003	-0.00002
	SN	(!CK * !D)	0.00003	0.00004	0.00005
	SN	(!CK * !D)	0.00124	0.00140	0.00201

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00279	0.00307	0.00410
	-0.00000	0.00001	0.00001
	0.00001	0.00001	0.00002
	0.00344	0.00372	0.00475

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00368	0.00408	0.00547
	0.00003	0.00004	0.00004
	-0.00002	-0.00001	-0.00001
	0.00312	0.00351	0.00489

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00127	0.00146	0.00215
	0.00002	0.00002	0.00003
	-0.00003	-0.00003	-0.00002
	0.00182	0.00201	0.00269

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00158	0.00180	0.00256
	-0.00003	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00104	0.00125	0.00202

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00031	0.00032	0.00033
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00096	0.00097	0.00098

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7L	0.00017	0.00017	0.00019
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

DFFSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX2H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX2H7L	0.00101	0.00074	0.00074	0.08626	0.08624

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX2H7L	0.00000	6.71020	9.34135

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7L	CK->Q (RR)	SN	0.08885	0.22049	0.54054
	SN->Q (FR)	(CK * D)	0.09067	0.25214	0.65261
	SN->Q (FR)	(CK * !D)	0.09067	0.25214	0.65261
	SN->Q (FR)	(!CK * D)	0.07857	0.23466	0.61948
	SN->Q (FR)	(!CK * !D)	0.08360	0.24226	0.63340

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7L	CK->Q (RF)	SN	0.10004	0.19400	0.40451

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7L	CK->QN (RR)	SN	0.07414	0.21491	0.53610

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7L	CK->QN (RF)	SN	0.05803	0.16175	0.38243
	SN->QN (FF)	(CK * D)	0.05643	0.19390	0.50358
	SN->QN (FF)	(CK * !D)	0.05643	0.19390	0.50359
	SN->QN (FF)	(!CK * D)	0.04750	0.17332	0.46102
	SN->QN (FF)	(!CK * !D)	0.05167	0.18073	0.47435

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7L	**hold**	**CK (R)**	-0.04386	-0.01449	-0.00145
	setup	**CK (R)**	0.01824	0.03987	0.07045

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7L	**hold**	**CK (R)**	-0.07841	-0.00866	0.03199
	setup	**CK (R)**	-0.00312	0.05344	0.15499

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7L	**recovery**	**CK (R)**	-0.05325	0.01044	0.17760
	removal	**CK (R)**	0.05253	0.07790	0.12103

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7L	CK	SN	0.00210	0.00232	0.00303
	CK	SN	-0.00002	-0.00002	-0.00001
	CK	SN	0.00001	0.00001	0.00001
	CK	SN	0.00242	0.00263	0.00335
	SN	(CK * D)	0.00233	0.00252	0.00339
	SN	(CK * D)	-0.00004	-0.00002	0.00001
	SN	(CK * D)	0.00001	0.00002	0.00004
	SN	(CK * D)	0.00204	0.00223	0.00310
	SN	(CK * !D)	0.00233	0.00252	0.00339
	SN	(CK * !D)	-0.00004	-0.00002	0.00001
	SN	(CK * !D)	0.00001	0.00002	0.00004
	SN	(CK * !D)	0.00204	0.00223	0.00310
	SN	(!CK * D)	0.00169	0.00187	0.00258
	SN	(!CK * D)	-0.00005	-0.00003	-0.00002
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00136	0.00155	0.00227
	SN	(!CK * !D)	0.00178	0.00195	0.00266
	SN	(!CK * !D)	-0.00004	-0.00003	-0.00003
	SN	(!CK * !D)	0.00004	0.00005	0.00006
	SN	(!CK * !D)	0.00144	0.00161	0.00233

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7L	CK	SN	0.00220	0.00242	0.00314
	CK	SN	0.00001	0.00002	0.00003
	CK	SN	-0.00001	-0.00001	-0.00001
	CK	SN	0.00262	0.00284	0.00358

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7L	CK	SN	0.00219	0.00242	0.00314
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00262	0.00285	0.00360

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7L	CK	SN	0.00209	0.00232	0.00303
	CK	SN	-0.00003	-0.00002	-0.00000
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00240	0.00263	0.00335
	SN	(CK * D)	0.00233	0.00252	0.00339
	SN	(CK * D)	-0.00003	-0.00002	0.00000
	SN	(CK * D)	-0.00000	0.00002	0.00005
	SN	(CK * D)	0.00204	0.00222	0.00310
	SN	(CK * !D)	0.00233	0.00252	0.00339
	SN	(CK * !D)	-0.00003	-0.00002	0.00000
	SN	(CK * !D)	-0.00000	0.00002	0.00005
	SN	(CK * !D)	0.00204	0.00223	0.00310
	SN	(!CK * D)	0.00169	0.00187	0.00258
	SN	(!CK * D)	-0.00004	-0.00003	-0.00003
	SN	(!CK * D)	-0.00002	0.00003	0.00006
	SN	(!CK * D)	0.00136	0.00155	0.00226
	SN	(!CK * !D)	0.00177	0.00195	0.00266
	SN	(!CK * !D)	-0.00003	-0.00003	-0.00001
	SN	(!CK * !D)	0.00003	0.00005	0.00005
	SN	(!CK * !D)	0.00144	0.00161	0.00232

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00290	0.00323	0.00446
	-0.00001	0.00000	0.00002
	0.00002	0.00002	0.00002
	0.00359	0.00392	0.00516

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00381	0.00428	0.00588
	0.00002	0.00003	0.00004
	-0.00002	-0.00002	-0.00001
	0.00316	0.00363	0.00523

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00132	0.00152	0.00221
	0.00001	0.00001	0.00003
	-0.00003	-0.00002	-0.00002
	0.00186	0.00205	0.00274

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00163	0.00184	0.00261
	-0.00003	-0.00001	-0.00001
	0.00002	0.00002	0.00003
	0.00108	0.00129	0.00207

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00034	0.00035	0.00035
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00100	0.00100	0.00100

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7L	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

DFFTRQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX0P5H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX0P5H7L	0.00091	0.00086	0.00096	0.06288

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX0P5H7L	0.00000	5.56427	8.61516

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7L	CK->Q (RR)	0.08752	0.22598	0.55050

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7L	CK->Q (RF)	0.07557	0.18504	0.42259

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7L	**hold**	**CK (R)**	-0.05522	-0.02637	-0.00733
	setup	**CK (R)**	0.01584	0.03659	0.06594

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7L	**hold**	**CK (R)**	-0.12738	-0.02571	0.04094
	setup	**CK (R)**	-0.00098	0.05459	0.15053

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7L	**hold**	**CK (R)**	-0.05317	-0.02485	-0.00398
	setup	**CK (R)**	0.01377	0.03502	0.06392

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7L	**hold**	**CK (R)**	-0.11986	-0.02254	0.04061
	setup	**CK (R)**	-0.00588	0.05032	0.14231

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7L	CK	0.00311	0.00344	0.00460
	CK	0.00005	0.00005	0.00005
	CK	-0.00005	-0.00003	0.00001
	CK	0.00383	0.00419	0.00530

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7L	CK	0.00367	0.00402	0.00522
	CK	-0.00005	-0.00002	0.00002
	CK	0.00006	0.00006	0.00009
	CK	0.00415	0.00449	0.00572

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00167	0.00197	0.00302
	-0.00001	0.00000	0.00002
	0.00001	0.00001	0.00002
	0.00230	0.00258	0.00363

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00391	0.00429	0.00562
	-0.00001	0.00000	0.00001
	-0.00002	-0.00001	-0.00001
	0.00335	0.00374	0.00507

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00140	0.00163	0.00250
	0.00006	0.00006	0.00007
	-0.00011	-0.00011	-0.00011
	0.00243	0.00265	0.00352

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00210	0.00244	0.00359
	-0.00007	-0.00006	-0.00006
	0.00011	0.00011	0.00011
	0.00108	0.00143	0.00259

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00138	0.00169	0.00276
	0.00006	0.00006	0.00006
	-0.00007	-0.00006	-0.00006
	0.00224	0.00255	0.00362

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7L	0.00197	0.00233	0.00357
	-0.00006	-0.00006	-0.00006
	0.00006	0.00006	0.00007
	0.00110	0.00146	0.00271

DFFTRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX1H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX1H7L	0.00092	0.00083	0.00092	0.07449

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX1H7L	0.00000	5.68683	8.76766

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7L	CK->Q (RR)	0.08529	0.22398	0.54881

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7L	CK->Q (RF)	0.07420	0.18455	0.42333

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7L	**hold**	**CK (R)**	-0.06834	-0.03275	-0.01085
	setup	**CK (R)**	0.01779	0.04270	0.07877

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7L	**hold**	**CK (R)**	-0.12331	-0.02381	0.04239
	setup	**CK (R)**	-0.00282	0.05265	0.14241

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7L	**hold**	**CK (R)**	-0.06799	-0.03150	-0.00999
	setup	**CK (R)**	0.01781	0.04272	0.08025

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7L	**hold**	**CK (R)**	-0.11282	-0.02133	0.04022
	setup	**CK (R)**	-0.00561	0.04899	0.13730

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7L	CK	0.00320	0.00353	0.00471
	CK	0.00002	0.00005	0.00006
	CK	-0.00006	-0.00002	0.00002
	CK	0.00390	0.00428	0.00539

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7L	CK	0.00376	0.00413	0.00535
	CK	-0.00005	-0.00002	0.00003
	CK	0.00003	0.00006	0.00009
	CK	0.00425	0.00459	0.00585

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00170	0.00198	0.00303
	-0.00001	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00231	0.00259	0.00364

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00395	0.00433	0.00566
	-0.00001	-0.00000	0.00001
	-0.00002	-0.00002	-0.00001
	0.00339	0.00378	0.00510

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00146	0.00167	0.00248
	0.00006	0.00006	0.00006
	-0.00011	-0.00010	-0.00010
	0.00241	0.00263	0.00344

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00209	0.00241	0.00350
	-0.00006	-0.00006	-0.00006
	0.00010	0.00010	0.00011
	0.00113	0.00145	0.00255

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00144	0.00172	0.00273
	0.00006	0.00006	0.00006
	-0.00006	-0.00006	-0.00006
	0.00227	0.00255	0.00356

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7L	0.00199	0.00232	0.00349
	-0.00006	-0.00006	-0.00005
	0.00006	0.00006	0.00006
	0.00115	0.00149	0.00266

DFFTRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX2H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX2H7L	0.00101	0.00087	0.00096	0.09462

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX2H7L	0.00000	6.58931	10.17250

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7L	CK->Q (RR)	0.08105	0.21922	0.54134

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7L	CK->Q (RF)	0.07265	0.18415	0.42578

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7L	**hold**	**CK (R)**	-0.06030	-0.02899	-0.01127
	setup	**CK (R)**	0.01943	0.03959	0.07264

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7L	**hold**	**CK (R)**	-0.12983	-0.03154	0.03159
	setup	**CK (R)**	0.00131	0.05824	0.15282

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7L	**hold**	**CK (R)**	-0.05811	-0.02724	-0.00788
	setup	**CK (R)**	0.01715	0.03858	0.06882

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7L	**hold**	**CK (R)**	-0.12357	-0.02806	0.03260
	setup	**CK (R)**	0.00143	0.05445	0.14381

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7L	CK	0.00350	0.00392	0.00528
	CK	0.00005	0.00005	0.00011
	CK	-0.00006	-0.00002	0.00002
	CK	0.00430	0.00473	0.00605

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7L	CK	0.00416	0.00461	0.00608
	CK	-0.00005	-0.00001	0.00005
	CK	0.00006	0.00006	0.00010
	CK	0.00474	0.00514	0.00666

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00176	0.00215	0.00335
	-0.00000	0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00240	0.00277	0.00402

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00409	0.00454	0.00609
	-0.00000	-0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	0.00348	0.00393	0.00547

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00150	0.00173	0.00262
	0.00005	0.00006	0.00006
	-0.00011	-0.00011	-0.00010
	0.00251	0.00275	0.00363

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00217	0.00252	0.00371
	-0.00006	-0.00006	-0.00005
	0.00010	0.00011	0.00012
	0.00116	0.00152	0.00271

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00148	0.00179	0.00289
	0.00005	0.00006	0.00006
	-0.00006	-0.00006	-0.00005
	0.00233	0.00264	0.00375

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7L	0.00204	0.00241	0.00368
	-0.00006	-0.00006	-0.00005
	0.00005	0.00006	0.00006
	0.00119	0.00156	0.00283

DFFX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX0P5H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX0P5H7L	0.00093	0.00074	0.06306	0.06301

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX0P5H7L	0.00000	5.80622	6.62161

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7L	CK->Q (RR)	0.08518	0.22138	0.54204

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7L	CK->Q (RF)	0.06151	0.16790	0.40042

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7L	CK->QN (RR)	0.08647	0.21693	0.53685

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7L	CK->QN (RF)	0.10577	0.20259	0.42675

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7L	**hold**	**CK (R)**	-0.04630	-0.01849	-0.00358
	setup	**CK (R)**	0.01198	0.02916	0.05479

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7L	**hold**	**CK (R)**	-0.10473	-0.01589	0.03241
	setup	**CK (R)**	-0.00245	0.04954	0.14494

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7L	CK	0.00191	0.00208	0.00265
	CK	0.00003	0.00003	0.00003
	CK	-0.00003	-0.00002	-0.00002
	CK	0.00229	0.00246	0.00304

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7L	CK	0.00178	0.00199	0.00261
	CK	-0.00003	-0.00002	0.00000
	CK	0.00002	0.00003	0.00005
	CK	0.00208	0.00228	0.00290

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7L	CK	0.00179	0.00199	0.00262
	CK	-0.00003	-0.00002	0.00001
	CK	0.00002	0.00003	0.00004
	CK	0.00209	0.00228	0.00291

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7L	CK	0.00191	0.00207	0.00265
	CK	0.00001	0.00003	0.00003
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00229	0.00245	0.00303

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7L	0.00165	0.00195	0.00302
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00230	0.00260	0.00368

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7L	0.00360	0.00398	0.00533
	0.00003	0.00003	0.00004
	-0.00001	-0.00000	0.00000
	0.00309	0.00346	0.00481

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7L	0.00119	0.00138	0.00207
	0.00003	0.00004	0.00004
	-0.00005	-0.00004	-0.00004
	0.00177	0.00196	0.00265

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7L	0.00167	0.00189	0.00267
	-0.00004	-0.00004	-0.00003
	0.00004	0.00004	0.00005
	0.00109	0.00131	0.00209

DFFX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX1H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX1H7L	0.00092	0.00074	0.06738	0.06738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX1H7L	0.00000	6.03211	6.86408

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7L	CK->Q (RR)	0.08275	0.21976	0.54340

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7L	CK->Q (RF)	0.06059	0.16027	0.37482

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7L	CK->QN (RR)	0.08482	0.21634	0.53909

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7L	CK->QN (RF)	0.10098	0.19124	0.39717

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX1H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7L	**hold**	**CK (R)**	-0.04564	-0.01849	-0.00397
	setup	**CK (R)**	0.01128	0.02925	0.05479

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7L	**hold**	**CK (R)**	-0.10456	-0.01591	0.03025
	setup	**CK (R)**	-0.00443	0.05071	0.14524

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7L	CK	0.00192	0.00209	0.00268
	CK	0.00000	0.00003	0.00003
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00229	0.00247	0.00307

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7L	CK	0.00184	0.00203	0.00266
	CK	-0.00003	-0.00002	0.00000
	CK	0.00003	0.00004	0.00005
	CK	0.00212	0.00232	0.00295

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7L	CK	0.00185	0.00203	0.00267
	CK	-0.00003	-0.00002	-0.00001
	CK	0.00004	0.00004	0.00005
	CK	0.00212	0.00232	0.00296

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7L	CK	0.00191	0.00208	0.00265
	CK	0.00001	0.00003	0.00004
	CK	-0.00004	-0.00003	-0.00001
	CK	0.00228	0.00246	0.00303

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7L	0.00165	0.00195	0.00302
	-0.00000	0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00230	0.00260	0.00368

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7L	0.00357	0.00396	0.00531
	0.00003	0.00004	0.00006
	-0.00001	-0.00000	0.00000
	0.00308	0.00346	0.00481

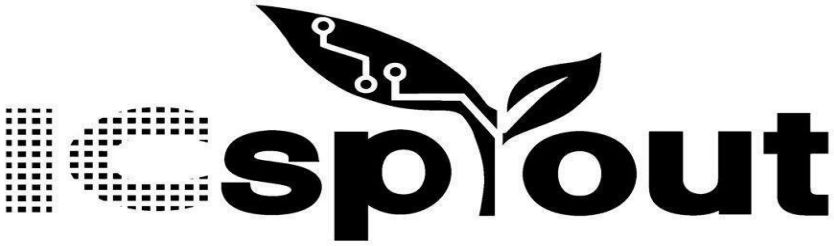
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7L	0.00120	0.00139	0.00209
	0.00003	0.00004	0.00005
	-0.00004	-0.00004	-0.00004
	0.00178	0.00197	0.00266

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7L	0.00168	0.00190	0.00268
	-0.00005	-0.00004	-0.00003
	0.00004	0.00004	0.00004
	0.00111	0.00132	0.00210

DFFX2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX2H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX2H7L	0.00102	0.00076	0.09563	0.09448

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX2H7L	0.00000	8.16718	9.63717

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7L	CK->Q (RR)	0.08037	0.21819	0.54193

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7L	CK->Q (RF)	0.06249	0.17286	0.41318

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7L	CK->QN (RR)	0.08814	0.21766	0.53697

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7L	CK->QN (RF)	0.10137	0.19983	0.42815

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX2H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7L	**hold**	**CK (R)**	-0.05296	-0.02381	-0.00679
	setup	**CK (R)**	0.01500	0.03547	0.06906

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7L	**hold**	**CK (R)**	-0.11408	-0.02321	0.02443
	setup	**CK (R)**	0.00114	0.05565	0.15104

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7L	CK	0.00226	0.00246	0.00316
	CK	0.00003	0.00003	0.00004
	CK	-0.00004	-0.00003	0.00000
	CK	0.00267	0.00287	0.00359

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7L	CK	0.00219	0.00241	0.00317
	CK	-0.00002	-0.00002	-0.00000
	CK	0.00004	0.00004	0.00006
	CK	0.00250	0.00272	0.00348

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7L	CK	0.00219	0.00241	0.00317
	CK	-0.00004	-0.00002	0.00001
	CK	0.00001	0.00004	0.00004
	CK	0.00251	0.00272	0.00348

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7L	CK	0.00224	0.00245	0.00313
	CK	0.00001	0.00003	0.00005
	CK	-0.00003	-0.00002	-0.00000
	CK	0.00266	0.00287	0.00356

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7L	0.00182	0.00217	0.00342
	0.00000	0.00001	0.00002
	0.00000	0.00000	0.00001
	0.00254	0.00289	0.00414

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7L	0.00397	0.00441	0.00597
	0.00002	0.00003	0.00005
	-0.00001	-0.00000	0.00000
	0.00338	0.00383	0.00539

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7L	0.00138	0.00160	0.00237
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00003
	0.00195	0.00217	0.00294

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7L	0.00198	0.00224	0.00312
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00141	0.00166	0.00254

DFFX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX3H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX3H7L	0.00101	0.00081	0.13316	0.13461

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX3H7L	0.00000	8.50712	9.89031

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7L	CK->Q (RR)	0.07898	0.21600	0.53607

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7L	CK->Q (RF)	0.06187	0.17123	0.40649

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7L	CK->QN (RR)	0.09076	0.22080	0.54269

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7L	CK->QN (RF)	0.10290	0.20137	0.42912

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX3H7L	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7L	**hold**	**CK (R)**	-0.05175	-0.02191	-0.00596
	setup	**CK (R)**	0.01413	0.03348	0.06457

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7L	**hold**	**CK (R)**	-0.10339	-0.01850	0.02724
	setup	**CK (R)**	-0.00344	0.05100	0.14542

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7L	CK	0.00244	0.00265	0.00334
	CK	0.00001	0.00003	0.00005
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00286	0.00307	0.00380

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7L	CK	0.00234	0.00256	0.00337
	CK	-0.00003	-0.00002	-0.00001
	CK	0.00002	0.00004	0.00005
	CK	0.00265	0.00287	0.00368

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7L	CK	0.00234	0.00256	0.00337
	CK	-0.00003	-0.00002	-0.00002
	CK	0.00003	0.00004	0.00004
	CK	0.00265	0.00287	0.00368

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7L	CK	0.00244	0.00265	0.00334
	CK	0.00003	0.00003	0.00004
	CK	-0.00003	-0.00003	-0.00001
	CK	0.00284	0.00306	0.00378

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7L	0.00182	0.00218	0.00343
	-0.00000	0.00000	0.00002
	0.00000	0.00000	0.00001
	0.00254	0.00289	0.00415

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7L	0.00396	0.00441	0.00598
	0.00003	0.00005	0.00006
	-0.00001	-0.00000	0.00000
	0.00342	0.00387	0.00542

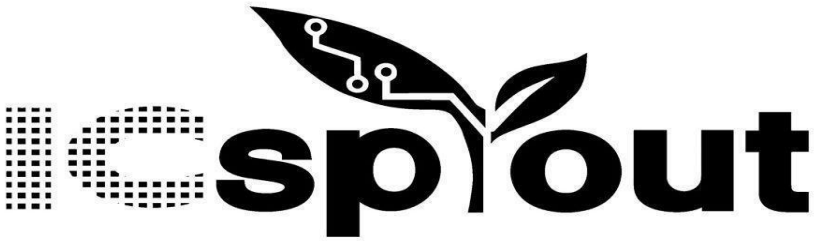
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7L	0.00143	0.00166	0.00251
	0.00003	0.00004	0.00004
	-0.00005	-0.00005	-0.00004
	0.00205	0.00229	0.00314

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7L	0.00213	0.00241	0.00338
	-0.00004	-0.00004	-0.00003
	0.00004	0.00005	0.00005
	0.00149	0.00177	0.00275

DLY1X2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X2H7L	0.00085	0.08266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X2H7L	0.00000	2.75060	2.77908

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7L	A->Y (RR)	0.05649	0.17932	0.48279

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7L	A->Y (FF)	0.05752	0.19284	0.52667

Power Information

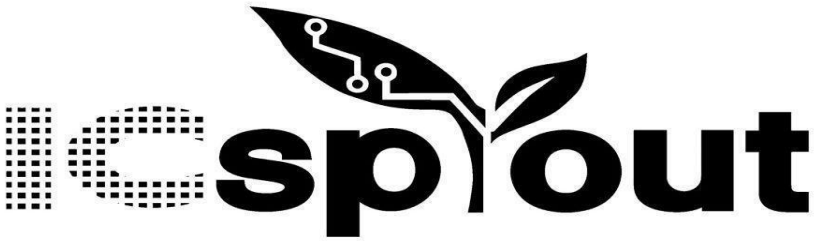
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7L	A	0.00156	0.00189	0.00295
	A	-0.00001	-0.00001	0.00000
	A	0.00000	0.00000	0.00001
	A	0.00215	0.00248	0.00350

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7L	A	0.00217	0.00254	0.00366
	A	0.00001	0.00001	0.00002
	A	-0.00000	-0.00000	0.00000
	A	0.00158	0.00195	0.00311

DLY1X6H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X6H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X6H7L	0.00085	0.24704

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X6H7L	0.00000	4.28517	5.21214

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7L	A->Y (RR)	0.06583	0.19179	0.49664

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7L	A->Y (FF)	0.06618	0.20529	0.54145

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7L	A	0.00268	0.00305	0.00427
	A	-0.00006	-0.00006	-0.00005
	A	0.00001	0.00004	0.00004
	A	0.00318	0.00354	0.00458

Internal switching power(pJ) to Y falling :

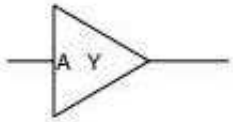
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7L	A	0.00326	0.00363	0.00476
	A	0.00006	0.00006	0.00007
	A	-0.00004	-0.00004	-0.00001
	A	0.00275	0.00313	0.00439

DLY2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X2H7L	0.00084	0.08262

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X2H7L	0.00000	1.57091	1.58497

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7L	A->Y (RR)	0.07732	0.20444	0.51337

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7L	A->Y (FF)	0.07929	0.21955	0.56046

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7L	A	0.00180	0.00211	0.00308
	A	-0.00001	-0.00001	-0.00001
	A	0.00000	0.00000	0.00001
	A	0.00239	0.00269	0.00362

Internal switching power(pJ) to Y falling :

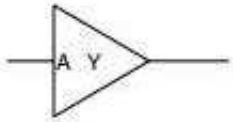
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7L	A	0.00243	0.00274	0.00374
	A	0.00001	0.00001	0.00001
	A	-0.00000	-0.00000	0.00000
	A	0.00184	0.00215	0.00318

DLY2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X6H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X6H7L	0.00085	0.24685

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X6H7L	0.00000	3.10231	4.01166

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7L	A->Y (RR)	0.08970	0.22052	0.53087

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7L	A->Y (FF)	0.09108	0.23611	0.57898

Power Information

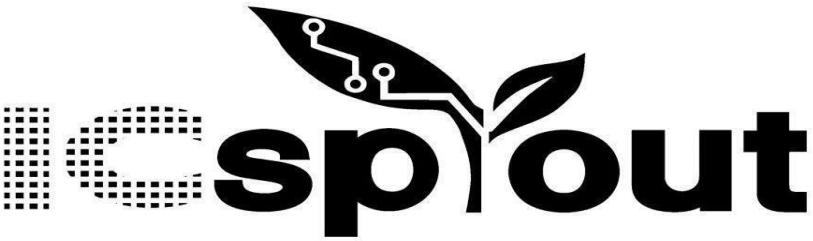
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7L	A	0.00293	0.00325	0.00421
	A	-0.00007	-0.00006	-0.00006
	A	0.00004	0.00004	0.00004
	A	0.00343	0.00375	0.00469

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7L	A	0.00351	0.00385	0.00490
	A	0.00006	0.00006	0.00008
	A	-0.00004	-0.00004	-0.00004
	A	0.00301	0.00335	0.00443

DLY3X2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X2H7L	0.00084	0.08248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X2H7L	0.00000	1.52291	1.53583

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7L	A->Y (RR)	0.09638	0.22648	0.53985

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7L	A->Y (FF)	0.10090	0.24562	0.59222

Power Information

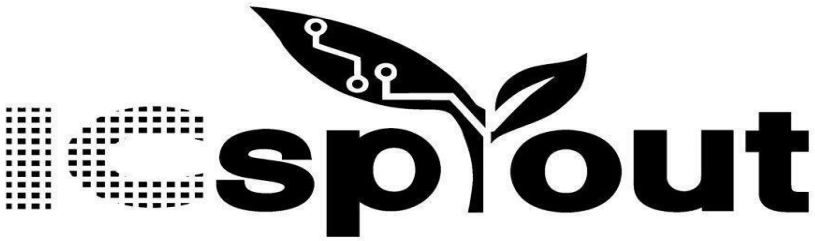
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7L	A	0.00199	0.00226	0.00321
	A	-0.00002	-0.00001	-0.00001
	A	0.00000	0.00000	0.00001
	A	0.00257	0.00285	0.00373

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7L	A	0.00260	0.00289	0.00383
	A	0.00001	0.00001	0.00002
	A	-0.00000	-0.00000	0.00000
	A	0.00202	0.00230	0.00329

DLY3X6H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X6H7L	0.00085	0.24606

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X6H7L	0.00000	3.05325	3.96319

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7L	A->Y (RR)	0.11409	0.24840	0.56418

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7L	A->Y (FF)	0.11646	0.26664	0.61611

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7L	A	0.00323	0.00353	0.00456
	A	-0.00007	-0.00006	-0.00002
	A	0.00004	0.00004	0.00004
	A	0.00373	0.00403	0.00498

Internal switching power(pJ) to Y falling :

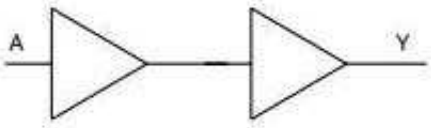
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7L	A	0.00380	0.00412	0.00524
	A	0.00002	0.00006	0.00008
	A	-0.00004	-0.00004	-0.00003
	A	0.00330	0.00362	0.00474

DLY4X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X2H7L	0.00088	0.08212

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X2H7L	0.00000	1.51511	1.52784

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7L	A->Y (RR)	0.12006	0.25317	0.57163

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7L	A->Y (FF)	0.12489	0.27381	0.62569

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7L	A	0.00225	0.00249	0.00340
	A	-0.00001	-0.00001	-0.00000
	A	0.00000	0.00000	0.00001
	A	0.00286	0.00311	0.00394

Internal switching power(pJ) to Y falling :

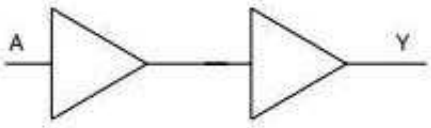
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7L	A	0.00282	0.00308	0.00397
	A	0.00000	0.00001	0.00002
	A	-0.00000	-0.00000	-0.00000
	A	0.00220	0.00247	0.00339

DLY4X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X6H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X6H7L	0.00089	0.24539

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X6H7L	0.00000	3.04610	3.95354

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7L	A->Y (RR)	0.13990	0.27849	0.59916

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7L	A->Y (FF)	0.14450	0.30053	0.65758

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7L	A	0.00328	0.00357	0.00459
	A	-0.00007	-0.00007	-0.00006
	A	0.00000	0.00004	0.00004
	A	0.00382	0.00411	0.00512

Internal switching power(pJ) to Y falling :

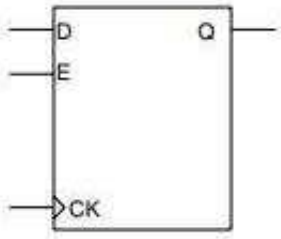
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7L	A	0.00390	0.00422	0.00546
	A	0.00007	0.00007	0.00009
	A	-0.00004	-0.00004	-0.00000
	A	0.00337	0.00369	0.00492

EDFFQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX0P5H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX0P5H7L	0.00091	0.00075	0.00202	0.06302

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX0P5H7L	0.00000	5.63355	7.05449

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7L	CK->Q (RR)	E	0.09395	0.23274	0.55561

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7L	CK->Q (RF)	E	0.07039	0.18129	0.41847

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7L	**hold**	**CK (R)**	-0.09603	-0.05080	-0.02461
	setup	**CK (R)**	0.03637	0.06291	0.10478

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7L	**hold**	**CK (R)**	-0.16572	-0.06128	0.00509
	setup	**CK (R)**	0.04253	0.09590	0.19883

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7L	**hold**	**CK (R)**	0.01047	0.03941	0.09533
	setup	**CK (R)**	0.05108	0.07352	0.09803

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7L	**hold**	**CK (R)**	-0.13788	-0.05029	0.01401
	setup	**CK (R)**	0.04681	0.08550	0.16565

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7L	CK	E	0.00487	0.00522	0.00635
	CK	E	0.00001	0.00004	0.00005
	CK	E	-0.00006	-0.00003	0.00002
	CK	E	0.00550	0.00587	0.00698

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7L	CK	E	0.00398	0.00431	0.00554
	CK	E	-0.00004	-0.00002	0.00001
	CK	E	0.00003	0.00006	0.00008
	CK	E	0.00456	0.00491	0.00614

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(D * E)	0.00188	0.00218	0.00326
	(D * E)	0.00002	0.00002	0.00002
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00252	0.00283	0.00391
	(D * !E)	0.00188	0.00218	0.00326
	(D * !E)	0.00001	0.00002	0.00002
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00253	0.00283	0.00391
	(!D * E)	0.00160	0.00191	0.00299
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00000	0.00001	0.00003
	(!D * E)	0.00221	0.00252	0.00360
	(!D * !E)	0.00188	0.00218	0.00326
	(!D * !E)	0.00001	0.00002	0.00002
	(!D * !E)	0.00000	0.00000	0.00000
	(!D * !E)	0.00254	0.00283	0.00391

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(D * E)	0.00353	0.00391	0.00523
	(D * E)	-0.00002	-0.00001	0.00000
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00298	0.00335	0.00467
	(D * !E)	0.00226	0.00261	0.00380
	(D * !E)	-0.00001	0.00000	0.00001
	(D * !E)	-0.00000	-0.00000	0.00000
	(D * !E)	0.00165	0.00199	0.00319
	(!D * E)	0.00372	0.00412	0.00547
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	0.00000	0.00001	0.00002
	(!D * E)	0.00300	0.00341	0.00476
	(!D * !E)	0.00226	0.00261	0.00380
	(!D * !E)	-0.00001	0.00000	0.00001
	(!D * !E)	-0.00000	-0.00000	0.00000
	(!D * !E)	0.00165	0.00199	0.00319

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(CK * E)	0.00013	0.00029	0.00090
	(CK * E)	0.00010	0.00011	0.00011
	(CK * E)	-0.00010	-0.00010	-0.00010
	(CK * E)	0.00109	0.00126	0.00187
	(CK * !E)	-0.00019	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00000
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	0.00019	0.00020	0.00021
	(!CK * E)	0.00136	0.00153	0.00215
	(!CK * E)	0.00010	0.00011	0.00011
	(!CK * E)	-0.00012	-0.00011	-0.00011
	(!CK * E)	0.00234	0.00251	0.00313
	(!CK * !E)	-0.00019	-0.00018	-0.00017
	(!CK * !E)	-0.00001	-0.00001	-0.00000
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	0.00019	0.00020	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(CK * E)	0.00125	0.00143	0.00210
	(CK * E)	-0.00011	-0.00011	-0.00010
	(CK * E)	0.00010	0.00010	0.00010
	(CK * E)	0.00029	0.00047	0.00114
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00000	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	-0.00018	-0.00018	-0.00018
	(!CK * E)	0.00268	0.00287	0.00359
	(!CK * E)	-0.00011	-0.00010	-0.00010
	(!CK * E)	0.00011	0.00011	0.00012
	(!CK * E)	0.00170	0.00190	0.00261
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00000	0.00001	0.00001
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(CK * D)	-0.00008	0.00054	0.00263
	(CK * D)	0.00009	0.00010	0.00011
	(CK * D)	-0.00011	-0.00010	-0.00009
	(CK * D)	0.00161	0.00223	0.00432
	(CK * !D)	0.00091	0.00125	0.00244
	(CK * !D)	-0.00006	-0.00006	-0.00005
	(CK * !D)	0.00004	0.00006	0.00007
	(CK * !D)	0.00172	0.00206	0.00323
	(!CK * D)	0.00125	0.00185	0.00392
	(!CK * D)	0.00009	0.00010	0.00010
	(!CK * D)	-0.00013	-0.00012	-0.00011
	(!CK * D)	0.00296	0.00355	0.00563
	(!CK * !D)	0.00211	0.00246	0.00365
	(!CK * !D)	-0.00006	-0.00006	-0.00005
	(!CK * !D)	0.00005	0.00007	0.00008
	(!CK * !D)	0.00291	0.00326	0.00445

Passive power(pJ) for E falling (conditional):

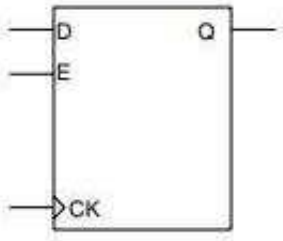
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7L	(CK * D)	0.00168	0.00238	0.00466
	(CK * D)	-0.00011	-0.00010	-0.00009
	(CK * D)	0.00009	0.00010	0.00011
	(CK * D)	0.00001	0.00069	0.00298
	(CK * !D)	0.00161	0.00202	0.00335
	(CK * !D)	0.00005	0.00006	0.00009
	(CK * !D)	-0.00007	-0.00006	-0.00004
	(CK * !D)	0.00080	0.00121	0.00259
	(!CK * D)	0.00305	0.00373	0.00602
	(!CK * D)	-0.00010	-0.00010	-0.00009
	(!CK * D)	0.00011	0.00012	0.00013
	(!CK * D)	0.00135	0.00203	0.00432
	(!CK * !D)	0.00302	0.00343	0.00478
	(!CK * !D)	0.00005	0.00006	0.00009
	(!CK * !D)	-0.00007	-0.00006	-0.00005
	(!CK * !D)	0.00221	0.00263	0.00401

EDFFQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX1H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX1H7L	0.00090	0.00075	0.00203	0.07471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX1H7L	0.00000	5.71404	7.13953

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7L	CK->Q (RR)	E	0.09106	0.23006	0.55425

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7L	CK->Q (RF)	E	0.06901	0.18061	0.41903

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7L	**hold**	**CK (R)**	-0.09603	-0.05080	-0.02461
	setup	**CK (R)**	0.03637	0.06283	0.10478

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7L	**hold**	**CK (R)**	-0.17002	-0.06165	0.00624
	setup	**CK (R)**	0.04430	0.09671	0.19878

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7L	**hold**	**CK (R)**	0.01449	0.04010	0.09731
	setup	**CK (R)**	0.05138	0.07378	0.09595

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7L	**hold**	**CK (R)**	-0.13721	-0.05071	0.01432
	setup	**CK (R)**	0.04681	0.08539	0.16565

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7L	CK	E	0.00499	0.00531	0.00649
	CK	E	0.00004	0.00004	0.00005
	CK	E	-0.00006	-0.00003	0.00004
	CK	E	0.00559	0.00595	0.00707

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7L	CK	E	0.00403	0.00439	0.00564
	CK	E	-0.00001	-0.00001	0.00002
	CK	E	0.00003	0.00006	0.00006
	CK	E	0.00465	0.00498	0.00623

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(D * E)	0.00188	0.00218	0.00326
	(D * E)	0.00001	0.00002	0.00002
	(D * E)	0.00000	0.00000	0.00000
	(D * E)	0.00254	0.00283	0.00390
	(D * !E)	0.00188	0.00218	0.00326
	(D * !E)	0.00001	0.00002	0.00002
	(D * !E)	0.00000	0.00000	0.00000
	(D * !E)	0.00253	0.00283	0.00391
	(!D * E)	0.00160	0.00191	0.00299
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00001	0.00002	0.00003
	(!D * E)	0.00221	0.00252	0.00360
	(!D * !E)	0.00188	0.00218	0.00326
	(!D * !E)	0.00001	0.00002	0.00002
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00252	0.00283	0.00390

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(D * E)	0.00355	0.00392	0.00524
	(D * E)	-0.00002	-0.00001	0.00000
	(D * E)	-0.00000	-0.00000	0.00000
	(D * E)	0.00299	0.00337	0.00469
	(D * !E)	0.00227	0.00260	0.00380
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	-0.00000	-0.00000	0.00000
	(D * !E)	0.00165	0.00199	0.00318
	(!D * E)	0.00372	0.00413	0.00550
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	0.00001	0.00001	0.00002
	(!D * E)	0.00301	0.00342	0.00479
	(!D * !E)	0.00227	0.00260	0.00380
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00165	0.00199	0.00318

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(CK * E)	0.00013	0.00030	0.00090
	(CK * E)	0.00010	0.00011	0.00012
	(CK * E)	-0.00010	-0.00010	-0.00010
	(CK * E)	0.00109	0.00126	0.00187
	(CK * !E)	-0.00019	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00000
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	0.00019	0.00020	0.00021
	(!CK * E)	0.00138	0.00155	0.00217
	(!CK * E)	0.00010	0.00010	0.00011
	(!CK * E)	-0.00012	-0.00012	-0.00012
	(!CK * E)	0.00237	0.00253	0.00316
	(!CK * !E)	-0.00019	-0.00018	-0.00017
	(!CK * !E)	-0.00001	-0.00001	-0.00000
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	0.00019	0.00020	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(CK * E)	0.00126	0.00144	0.00211
	(CK * E)	-0.00011	-0.00011	-0.00010
	(CK * E)	0.00010	0.00010	0.00011
	(CK * E)	0.00029	0.00047	0.00114
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00000	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	-0.00018	-0.00018	-0.00018
	(!CK * E)	0.00271	0.00290	0.00361
	(!CK * E)	-0.00011	-0.00010	-0.00010
	(!CK * E)	0.00012	0.00012	0.00012
	(!CK * E)	0.00172	0.00191	0.00263
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00000	0.00001	0.00001
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(CK * D)	-0.00008	0.00054	0.00263
	(CK * D)	0.00010	0.00011	0.00011
	(CK * D)	-0.00011	-0.00010	-0.00009
	(CK * D)	0.00161	0.00223	0.00433
	(CK * !D)	0.00092	0.00126	0.00245
	(CK * !D)	-0.00006	-0.00006	-0.00005
	(CK * !D)	0.00006	0.00007	0.00009
	(CK * !D)	0.00172	0.00206	0.00323
	(!CK * D)	0.00126	0.00187	0.00394
	(!CK * D)	0.00009	0.00010	0.00012
	(!CK * D)	-0.00012	-0.00011	-0.00009
	(!CK * D)	0.00297	0.00358	0.00565
	(!CK * !D)	0.00213	0.00248	0.00368
	(!CK * !D)	-0.00007	-0.00006	-0.00005
	(!CK * !D)	0.00006	0.00007	0.00007
	(!CK * !D)	0.00293	0.00327	0.00447

Passive power(pJ) for E falling (conditional):

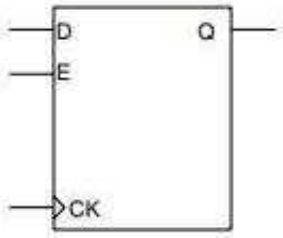
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7L	(CK * D)	0.00169	0.00239	0.00467
	(CK * D)	-0.00011	-0.00010	-0.00009
	(CK * D)	0.00010	0.00010	0.00011
	(CK * D)	0.00001	0.00069	0.00298
	(CK * !D)	0.00161	0.00202	0.00335
	(CK * !D)	0.00005	0.00006	0.00009
	(CK * !D)	-0.00007	-0.00006	-0.00005
	(CK * !D)	0.00081	0.00122	0.00260
	(!CK * D)	0.00309	0.00376	0.00604
	(!CK * D)	-0.00012	-0.00010	-0.00009
	(!CK * D)	0.00009	0.00011	0.00012
	(!CK * D)	0.00136	0.00205	0.00433
	(!CK * !D)	0.00304	0.00345	0.00479
	(!CK * !D)	0.00005	0.00007	0.00009
	(!CK * !D)	-0.00007	-0.00007	-0.00006
	(!CK * !D)	0.00223	0.00266	0.00403

EDFFQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX2H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX2H7L	0.00090	0.00075	0.00210	0.08612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX2H7L	0.00000	5.89539	7.38154

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7L	CK->Q (RR)	E	0.09118	0.23011	0.55342

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7L	CK->Q (RF)	E	0.06680	0.17292	0.39749

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7L	**hold**	**CK (R)**	-0.09451	-0.05156	-0.02518
	setup	**CK (R)**	0.03637	0.06380	0.10601

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7L	**hold**	**CK (R)**	-0.17253	-0.06269	0.00649
	setup	**CK (R)**	0.04692	0.09860	0.20161

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7L	**hold**	**CK (R)**	0.01450	0.04018	0.09514
	setup	**CK (R)**	0.05188	0.07341	0.09564

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7L	**hold**	**CK (R)**	-0.13527	-0.05092	0.01361
	setup	**CK (R)**	0.04542	0.08419	0.16829

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7L	CK	E	0.00508	0.00545	0.00662
	CK	E	0.00004	0.00005	0.00007
	CK	E	-0.00006	-0.00002	0.00001
	CK	E	0.00573	0.00610	0.00722

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7L	CK	E	0.00423	0.00458	0.00588
	CK	E	-0.00005	-0.00001	0.00007
	CK	E	0.00004	0.00006	0.00008
	CK	E	0.00485	0.00519	0.00647

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(D * E)	0.00190	0.00220	0.00328
	(D * E)	0.00001	0.00002	0.00002
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00254	0.00285	0.00392
	(D * !E)	0.00190	0.00220	0.00328
	(D * !E)	0.00002	0.00002	0.00002
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00254	0.00285	0.00392
	(!D * E)	0.00162	0.00193	0.00301
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00001	0.00002	0.00003
	(!D * E)	0.00223	0.00254	0.00362
	(!D * !E)	0.00190	0.00220	0.00327
	(!D * !E)	0.00002	0.00002	0.00002
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00254	0.00285	0.00392

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(D * E)	0.00357	0.00395	0.00527
	(D * E)	-0.00001	-0.00000	0.00001
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00303	0.00341	0.00473
	(D * !E)	0.00229	0.00262	0.00381
	(D * !E)	-0.00001	-0.00000	0.00001
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00167	0.00201	0.00320
	(!D * E)	0.00383	0.00423	0.00559
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	0.00001	0.00001	0.00002
	(!D * E)	0.00310	0.00351	0.00487
	(!D * !E)	0.00229	0.00262	0.00381
	(!D * !E)	-0.00001	-0.00000	0.00001
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00167	0.00201	0.00320

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(CK * E)	0.00014	0.00030	0.00091
	(CK * E)	0.00011	0.00011	0.00012
	(CK * E)	-0.00011	-0.00011	-0.00010
	(CK * E)	0.00112	0.00128	0.00188
	(CK * !E)	-0.00019	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	0.00000	0.00001	0.00001
	(CK * !E)	0.00019	0.00020	0.00021
	(!CK * E)	0.00140	0.00157	0.00218
	(!CK * E)	0.00011	0.00011	0.00012
	(!CK * E)	-0.00012	-0.00012	-0.00012
	(!CK * E)	0.00240	0.00257	0.00318
	(!CK * !E)	-0.00019	-0.00018	-0.00017
	(!CK * !E)	-0.00001	-0.00001	-0.00000
	(!CK * !E)	0.00000	0.00001	0.00001
	(!CK * !E)	0.00019	0.00020	0.00022

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(CK * E)	0.00127	0.00145	0.00211
	(CK * E)	-0.00012	-0.00011	-0.00011
	(CK * E)	0.00010	0.00011	0.00011
	(CK * E)	0.00029	0.00048	0.00114
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00000
	(CK * !E)	-0.00018	-0.00018	-0.00017
	(!CK * E)	0.00278	0.00298	0.00368
	(!CK * E)	-0.00012	-0.00011	-0.00011
	(!CK * E)	0.00012	0.00012	0.00013
	(!CK * E)	0.00179	0.00198	0.00269
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00000	0.00001	0.00001
	(!CK * !E)	-0.00001	-0.00001	-0.00000
	(!CK * !E)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(CK * D)	-0.00010	0.00058	0.00286
	(CK * D)	0.00010	0.00011	0.00012
	(CK * D)	-0.00011	-0.00010	-0.00009
	(CK * D)	0.00165	0.00234	0.00463
	(CK * !D)	0.00091	0.00131	0.00270
	(CK * !D)	-0.00007	-0.00006	-0.00004
	(CK * !D)	0.00006	0.00006	0.00008
	(CK * !D)	0.00177	0.00217	0.00354
	(!CK * D)	0.00127	0.00193	0.00420
	(!CK * D)	0.00011	0.00012	0.00013
	(!CK * D)	-0.00012	-0.00012	-0.00010
	(!CK * D)	0.00305	0.00371	0.00598
	(!CK * !D)	0.00218	0.00260	0.00399
	(!CK * !D)	-0.00008	-0.00006	-0.00004
	(!CK * !D)	0.00005	0.00007	0.00008
	(!CK * !D)	0.00302	0.00344	0.00484

Passive power(pJ) for E falling (conditional):

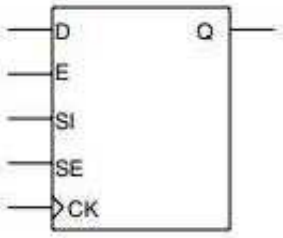
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7L	(CK * D)	0.00177	0.00253	0.00503
	(CK * D)	-0.00011	-0.00011	-0.00009
	(CK * D)	0.00009	0.00010	0.00011
	(CK * D)	0.00002	0.00078	0.00327
	(CK * !D)	0.00165	0.00214	0.00368
	(CK * !D)	0.00004	0.00006	0.00007
	(CK * !D)	-0.00007	-0.00006	-0.00005
	(CK * !D)	0.00077	0.00127	0.00287
	(!CK * D)	0.00321	0.00396	0.00645
	(!CK * D)	-0.00012	-0.00012	-0.00011
	(!CK * D)	0.00010	0.00012	0.00012
	(!CK * D)	0.00142	0.00218	0.00467
	(!CK * !D)	0.00309	0.00358	0.00514
	(!CK * !D)	0.00004	0.00006	0.00008
	(!CK * !D)	-0.00008	-0.00007	-0.00005
	(!CK * !D)	0.00225	0.00274	0.00432

ESDFFQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**E**	**SE**	**SI**	**Q**
R	**x**	**0**	**0**	**x**	**IQ**
R	**x**	**x**	**1**	**0**	**0**
R	**x**	**x**	**1**	**1**	**1**
R	**0**	**1**	**0**	**x**	**0**
R	**1**	**1**	**0**	**x**	**1**
x	**x**	**x**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
ESDFFQX0P5H7L	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX0P5H7L	0.00097	0.00076	0.00210	0.00204	0.00082	0.06296

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX0P5H7L	0.00000	8.09845	11.91160

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7L	CK->Q (RR)	SE	0.07530	0.21538	0.54173
	CK->Q (RR)	(E * !SE)	0.07528	0.21538	0.54182

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7L	CK->Q (RF)	SE	0.06782	0.17962	0.42150
	CK->Q (RF)	(E * !SE)	0.06782	0.17965	0.42145

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	**hold**	**CK (R)**	-0.08323	-0.03237	0.01311
	setup	**CK (R)**	0.01119	0.06116	0.12077

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	**hold**	**CK (R)**	-0.19769	-0.10467	-0.05746
	setup	**CK (R)**	0.07442	0.12564	0.22601

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	**hold**	**CK (R)**	-0.05497	-0.01381	0.02825
	setup	**CK (R)**	0.07932	0.10013	0.11970

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	**hold**	**CK (R)**	-0.14138	-0.05694	-0.00181
	setup	**CK (R)**	0.06535	0.11280	0.21087

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	hold	CK (R)	-0.02334	0.00579	0.03552
	setup	CK (R)	0.05483	0.07323	0.09188

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	hold	CK (R)	-0.10848	-0.02977	0.02311
	setup	CK (R)	0.03666	0.08057	0.16919

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	hold	CK (R)	-0.03926	-0.00492	0.02994
	setup	CK (R)	-0.00697	0.03245	0.07304

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7L	hold	CK (R)	-0.15654	-0.07504	-0.03383
	setup	CK (R)	0.05270	0.09513	0.18335

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7L	CK	SE	0.00483	0.00517	0.00634
	CK	SE	0.00004	0.00010	0.00015
	CK	SE	-0.00013	-0.00010	-0.00007
	CK	SE	0.00601	0.00638	0.00754
	CK	(E * !SE)	0.00439	0.00475	0.00592
	CK	(E * !SE)	-0.00002	0.00000	0.00003
	CK	(E * !SE)	-0.00001	0.00000	0.00002
	CK	(E * !SE)	0.00500	0.00534	0.00649

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7L	CK	SE	0.00483	0.00516	0.00633
	CK	SE	-0.00015	-0.00010	-0.00004
	CK	SE	0.00008	0.00011	0.00014
	CK	SE	0.00496	0.00528	0.00645
	CK	(E * !SE)	0.00370	0.00401	0.00518
	CK	(E * !SE)	-0.00001	0.00000	0.00002
	CK	(E * !SE)	-0.00000	0.00000	0.00003
	CK	(E * !SE)	0.00444	0.00475	0.00593

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00159	0.00187	0.00289
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00226	0.00254	0.00356

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00389	0.00426	0.00559
	0.00003	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00329	0.00367	0.00500

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00192	0.00207	0.00265
	0.00012	0.00013	0.00014
	-0.00013	-0.00012	-0.00012
	0.00338	0.00353	0.00410

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00368	0.00386	0.00452
	-0.00014	-0.00013	-0.00012
	0.00012	0.00012	0.00013
	0.00222	0.00239	0.00306

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00181	0.00237	0.00432
	0.00010	0.00012	0.00014
	-0.00012	-0.00010	-0.00009
	0.00394	0.00451	0.00647

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00407	0.00470	0.00687
	-0.00014	-0.00012	-0.00010
	0.00011	0.00011	0.00012
	0.00190	0.00255	0.00473

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00155	0.00212	0.00408
	0.00002	0.00004	0.00005
	-0.00004	-0.00003	-0.00002
	0.00314	0.00371	0.00569

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00311	0.00377	0.00598
	-0.00005	-0.00004	-0.00002
	0.00002	0.00003	0.00004
	0.00150	0.00216	0.00437

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00154	0.00169	0.00228
	0.00004	0.00005	0.00005
	-0.00005	-0.00004	-0.00003
	0.00246	0.00262	0.00321

Passive power(pJ) for SI falling :

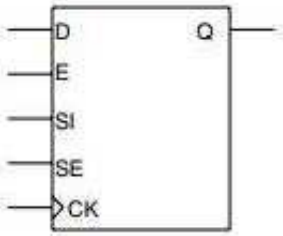
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7L	0.00283	0.00301	0.00367
	-0.00005	-0.00005	-0.00004
	0.00003	0.00004	0.00005
	0.00191	0.00209	0.00275

ESDFFQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**E**	**SE**	**SI**	**Q**
R	**x**	**0**	**0**	**x**	**IQ**
R	**x**	**x**	**1**	**0**	**0**
R	**x**	**x**	**1**	**1**	**1**
R	**0**	**1**	**0**	**x**	**0**
R	**1**	**1**	**0**	**x**	**1**
x	**x**	**x**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
ESDFFQX1H7L	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX1H7L	0.00096	0.00081	0.00210	0.00205	0.00082	0.08177

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX1H7L	0.00000	9.90475	15.15920

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7L	CK->Q (RR)	SE	0.07480	0.21534	0.54274
	CK->Q (RR)	(E * !SE)	0.07480	0.21534	0.54274

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7L	CK->Q (RF)	SE	0.06779	0.18055	0.42347
	CK->Q (RF)	(E * !SE)	0.06778	0.18055	0.42340

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	**hold**	**CK (R)**	-0.08362	-0.03222	0.01054
	setup	**CK (R)**	0.01440	0.06239	0.12005

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	**hold**	**CK (R)**	-0.20119	-0.10628	-0.06016
	setup	**CK (R)**	0.07976	0.12834	0.22742

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	**hold**	**CK (R)**	-0.05228	-0.01275	0.02909
	setup	**CK (R)**	0.08150	0.10242	0.12312

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	**hold**	**CK (R)**	-0.14226	-0.06003	-0.00445
	setup	**CK (R)**	0.06812	0.11827	0.22088

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	hold	CK (R)	-0.02810	0.00206	0.03403
	setup	CK (R)	0.05830	0.07847	0.09713

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	hold	CK (R)	-0.10997	-0.03104	0.02232
	setup	CK (R)	0.04001	0.08335	0.16962

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	hold	CK (R)	-0.04494	-0.00794	0.02716
	setup	CK (R)	-0.00487	0.03677	0.08049

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7L	hold	CK (R)	-0.16194	-0.07904	-0.03896
	setup	CK (R)	0.05547	0.10021	0.18650

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7L	CK	SE	0.00500	0.00535	0.00652
	CK	SE	0.00007	0.00010	0.00011
	CK	SE	-0.00014	-0.00011	-0.00006
	CK	SE	0.00620	0.00659	0.00775
	CK	(E * !SE)	0.00454	0.00492	0.00609
	CK	(E * !SE)	0.00000	0.00000	0.00004
	CK	(E * !SE)	-0.00002	0.00000	0.00003
	CK	(E * !SE)	0.00515	0.00552	0.00669

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7L	CK	SE	0.00514	0.00547	0.00669
	CK	SE	-0.00011	-0.00010	-0.00007
	CK	SE	0.00006	0.00011	0.00016
	CK	SE	0.00522	0.00556	0.00679
	CK	(E * !SE)	0.00399	0.00430	0.00554
	CK	(E * !SE)	-0.00001	-0.00000	0.00000
	CK	(E * !SE)	-0.00001	0.00000	0.00004
	CK	(E * !SE)	0.00471	0.00503	0.00627

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00160	0.00188	0.00290
	-0.00001	-0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00228	0.00256	0.00358

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00408	0.00446	0.00581
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00349	0.00387	0.00521

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00223	0.00239	0.00301
	0.00012	0.00012	0.00013
	-0.00013	-0.00013	-0.00011
	0.00374	0.00390	0.00452

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00396	0.00415	0.00486
	-0.00013	-0.00012	-0.00012
	0.00011	0.00013	0.00014
	0.00244	0.00263	0.00334

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00213	0.00270	0.00468
	0.00010	0.00012	0.00013
	-0.00012	-0.00011	-0.00009
	0.00428	0.00486	0.00686

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00431	0.00497	0.00718
	-0.00013	-0.00012	-0.00010
	0.00009	0.00011	0.00013
	0.00215	0.00279	0.00501

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00265	0.00301	0.00433
	0.00000	0.00000	0.00001
	-0.00001	0.00001	0.00002
	0.00349	0.00385	0.00518

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00334	0.00401	0.00624
	-0.00001	-0.00000	0.00000
	0.00002	0.00003	0.00004
	0.00175	0.00240	0.00463

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00183	0.00199	0.00259
	0.00004	0.00005	0.00005
	-0.00005	-0.00003	0.00002
	0.00272	0.00292	0.00351

Passive power(pJ) for SI falling :

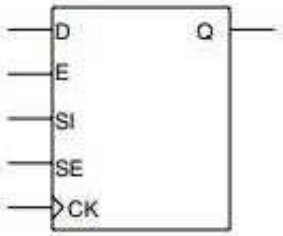
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7L	0.00307	0.00324	0.00391
	-0.00005	-0.00005	-0.00004
	0.00003	0.00004	0.00005
	0.00213	0.00232	0.00298

ESDFFQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**E**	**SE**	**SI**	**Q**
R	**x**	**0**	**0**	**x**	**IQ**
R	**x**	**x**	**1**	**0**	**0**
R	**x**	**x**	**1**	**1**	**1**
R	**0**	**1**	**0**	**x**	**0**
R	**1**	**1**	**0**	**x**	**1**
x	**x**	**x**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
ESDFFQX2H7L	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX2H7L	0.00096	0.00081	0.00212	0.00206	0.00083	0.09451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX2H7L	0.00000	9.61491	14.60940

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7L	CK->Q (RR)	SE	0.07336	0.21403	0.54195
	CK->Q (RR)	(E * !SE)	0.07336	0.21403	0.54195

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7L	CK->Q (RF)	SE	0.06557	0.17955	0.42695
	CK->Q (RF)	(E * !SE)	0.06557	0.17956	0.42693

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	**hold**	**CK (R)**	-0.08203	-0.03222	0.01211
	setup	**CK (R)**	0.01460	0.06320	0.12148

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	**hold**	**CK (R)**	-0.20119	-0.10648	-0.06009
	setup	**CK (R)**	0.08028	0.12902	0.23010

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	**hold**	**CK (R)**	-0.05291	-0.01344	0.02606
	setup	**CK (R)**	0.08331	0.10311	0.12318

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	**hold**	**CK (R)**	-0.14253	-0.06032	-0.00546
	setup	**CK (R)**	0.06927	0.11883	0.22128

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	hold	CK (R)	-0.02759	0.00218	0.03538
	setup	CK (R)	0.05901	0.07866	0.09710

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	hold	CK (R)	-0.10991	-0.03113	0.02236
	setup	CK (R)	0.04040	0.08394	0.16875

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	hold	CK (R)	-0.04424	-0.00778	0.03022
	setup	CK (R)	-0.00362	0.03761	0.08141

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7L	hold	CK (R)	-0.16232	-0.07913	-0.03663
	setup	CK (R)	0.05469	0.10087	0.19062

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7L	CK	SE	0.00506	0.00543	0.00668
	CK	SE	0.00010	0.00010	0.00015
	CK	SE	-0.00013	-0.00011	-0.00008
	CK	SE	0.00629	0.00667	0.00784
	CK	(E * !SE)	0.00462	0.00500	0.00621
	CK	(E * !SE)	-0.00002	-0.00000	0.00003
	CK	(E * !SE)	-0.00000	0.00000	0.00001
	CK	(E * !SE)	0.00525	0.00560	0.00677

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7L	CK	SE	0.00520	0.00554	0.00677
	CK	SE	-0.00010	-0.00010	-0.00007
	CK	SE	0.00009	0.00011	0.00015
	CK	SE	0.00527	0.00563	0.00687
	CK	(E * !SE)	0.00405	0.00437	0.00561
	CK	(E * !SE)	-0.00003	0.00000	0.00003
	CK	(E * !SE)	0.00000	0.00000	0.00001
	CK	(E * !SE)	0.00478	0.00510	0.00634

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00162	0.00189	0.00291
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00229	0.00257	0.00359

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00415	0.00453	0.00588
	0.00004	0.00004	0.00005
	-0.00000	-0.00000	0.00000
	0.00354	0.00393	0.00527

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00226	0.00242	0.00304
	0.00013	0.00014	0.00015
	-0.00014	-0.00013	-0.00011
	0.00380	0.00396	0.00458

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00401	0.00421	0.00492
	-0.00014	-0.00014	-0.00013
	0.00011	0.00013	0.00014
	0.00248	0.00267	0.00339

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00217	0.00273	0.00471
	0.00010	0.00012	0.00014
	-0.00013	-0.00012	-0.00010
	0.00435	0.00492	0.00691

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00439	0.00504	0.00725
	-0.00014	-0.00012	-0.00010
	0.00010	0.00012	0.00013
	0.00218	0.00283	0.00505

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00270	0.00307	0.00439
	0.00000	0.00000	0.00000
	-0.00001	0.00001	0.00002
	0.00353	0.00390	0.00523

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00341	0.00407	0.00630
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00177	0.00244	0.00467

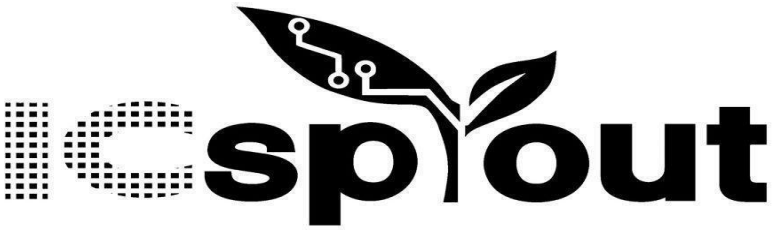
Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00187	0.00202	0.00262
	0.00005	0.00006	0.00006
	-0.00005	-0.00003	0.00005
	0.00274	0.00296	0.00356

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7L	0.00312	0.00331	0.00396
	-0.00006	-0.00006	-0.00005
	0.00003	0.00004	0.00005
	0.00219	0.00236	0.00302

FILLCAP16H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

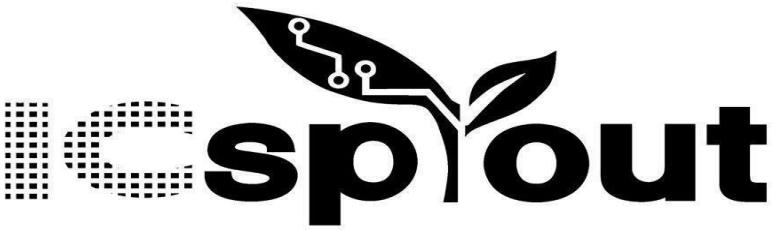
Footprint

Cell Name	Area
FILLCAP16H7L	4.48000

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP16H7L	0.00000	0.30685	0.30685

FILLCAP32H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

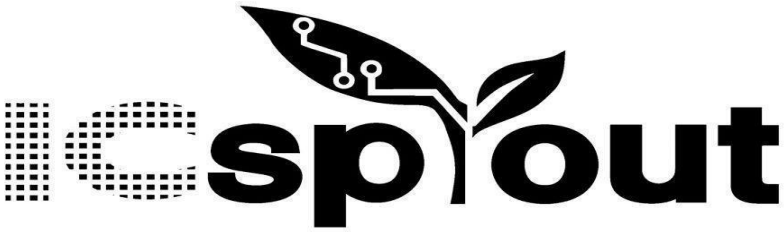
Cell Name	Area
FILLCAP32H7L	8.96000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP32H7L	0.00000	0.68397	0.68397

FILLCAP4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

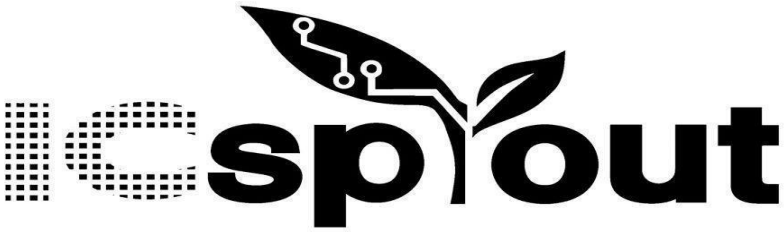
Cell Name	Area
FILLCAP4H7L	1.12000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP4H7L	0.00000	0.03403	0.03403

FILLCAP8H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

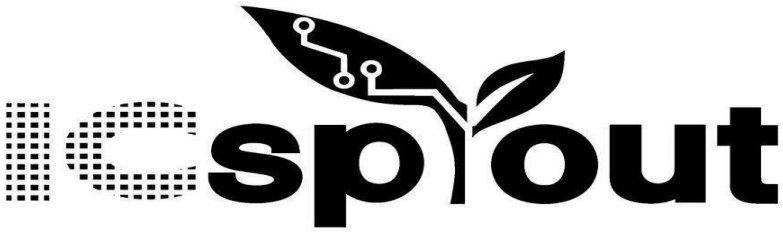
Cell Name	Area
FILLCAP8H7L	2.24000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP8H7L	0.00000	0.12025	0.12025

ICGNX0P5H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX0P5H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX0P5H7L	0.00188	0.00079	0.06332

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX0P5H7L	0.00000	4.65184	5.92037

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7L	CKN->ECK (RR)	0.02325	0.14596	0.45409

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7L	CKN->ECK (FF)	0.03490	0.15013	0.43941

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX0P5H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7L	**hold**	**CKN (F)**	0.00729	0.05343	0.15299
	setup	**CKN (F)**	0.00144	0.05697	0.12849

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7L	**hold**	**CKN (F)**	-0.02534	0.00467	0.05267
	setup	**CKN (F)**	0.02248	0.06227	0.14184

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7L	CKN	0.00363	0.00430	0.00655
	CKN	-0.00005	-0.00000	0.00003
	CKN	0.00003	0.00004	0.00005
	CKN	0.00481	0.00546	0.00772

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7L	CKN	0.00315	0.00388	0.00643
	CKN	-0.00002	0.00000	0.00005
	CKN	-0.00004	0.00002	0.00003
	CKN	0.00183	0.00252	0.00506

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7L	0.00273	0.00308	0.00437
	0.00001	0.00002	0.00002
	-0.00001	-0.00000	0.00000
	0.00394	0.00428	0.00556

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7L	0.00194	0.00229	0.00351
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00001
	0.00092	0.00127	0.00249

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7L	0.00107	0.00126	0.00198
	0.00006	0.00006	0.00007
	-0.00006	-0.00005	-0.00005
	0.00178	0.00198	0.00269

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7L	0.00209	0.00231	0.00311
	-0.00007	-0.00006	-0.00006
	0.00005	0.00006	0.00006
	0.00136	0.00158	0.00238

ICGNX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX1H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX1H7L	0.00188	0.00079	0.07486

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX1H7L	0.00000	4.77373	5.95514

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7L	CKN->ECK (RR)	0.02276	0.14625	0.45570

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7L	CKN->ECK (FF)	0.03524	0.15183	0.44287

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX1H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7L	**hold**	**CKN (F)**	0.00729	0.05317	0.15299
	setup	**CKN (F)**	0.00206	0.05730	0.12982

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7L	**hold**	**CKN (F)**	-0.02476	0.00505	0.05360
	setup	**CKN (F)**	0.02376	0.06243	0.14424

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7L	CKN	0.00367	0.00437	0.00665
	CKN	-0.00005	-0.00001	0.00004
	CKN	-0.00002	0.00004	0.00005
	CKN	0.00480	0.00551	0.00781

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7L	CKN	0.00320	0.00393	0.00655
	CKN	0.00000	0.00001	0.00006
	CKN	0.00002	0.00002	0.00006
	CKN	0.00185	0.00258	0.00519

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7L	0.00274	0.00309	0.00437
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00394	0.00428	0.00557

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7L	0.00194	0.00229	0.00351
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00092	0.00127	0.00249

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7L	0.00107	0.00126	0.00198
	0.00006	0.00006	0.00006
	-0.00006	-0.00006	-0.00005
	0.00178	0.00198	0.00269

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7L	0.00208	0.00231	0.00310
	-0.00006	-0.00006	-0.00006
	0.00005	0.00006	0.00006
	0.00135	0.00158	0.00238

ICGNX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX2H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX2H7L	0.00188	0.00079	0.09478

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX2H7L	0.00000	5.48475	6.16532

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7L	CKN->ECK (RR)	0.02414	0.15071	0.46497

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7L	CKN->ECK (FF)	0.03904	0.16065	0.45937

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX2H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7L	**hold**	**CKN (F)**	0.00729	0.05343	0.15299
	setup	**CKN (F)**	-0.00046	0.05481	0.13149

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7L	**hold**	**CKN (F)**	-0.02840	0.00406	0.05517
	setup	**CKN (F)**	0.02340	0.06294	0.14340

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7L	CKN	0.00386	0.00455	0.00696
	CKN	-0.00007	-0.00001	0.00005
	CKN	0.00004	0.00005	0.00005
	CKN	0.00503	0.00569	0.00811

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7L	CKN	0.00347	0.00420	0.00700
	CKN	-0.00004	0.00001	0.00007
	CKN	-0.00002	0.00001	0.00006
	CKN	0.00212	0.00285	0.00565

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7L	0.00273	0.00308	0.00436
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00394	0.00428	0.00556

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7L	0.00193	0.00229	0.00351
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00092	0.00127	0.00249

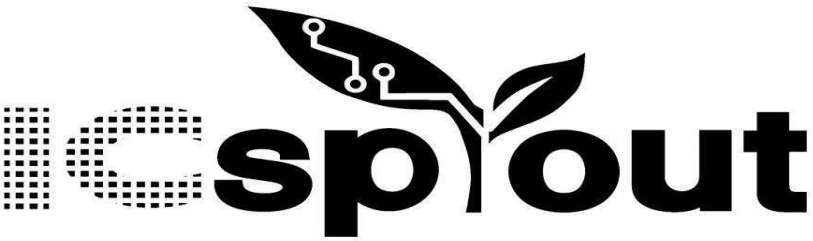
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7L	0.00106	0.00126	0.00198
	0.00006	0.00006	0.00007
	-0.00005	-0.00005	-0.00005
	0.00178	0.00198	0.00269

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7L	0.00209	0.00231	0.00311
	-0.00007	-0.00006	-0.00006
	0.00005	0.00005	0.00006
	0.00136	0.00158	0.00238

ICGNX3H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX3H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX3H7L	0.00195	0.00079	0.13356

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX3H7L	0.00000	5.75810	6.45508

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7L	CKN->ECK (RR)	0.02302	0.15101	0.46745

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7L	CKN->ECK (FF)	0.03817	0.15987	0.45645

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX3H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7L	**hold**	**CKN (F)**	0.00999	0.05382	0.15517
	setup	**CKN (F)**	0.00152	0.05649	0.13332

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7L	**hold**	**CKN (F)**	-0.03046	0.00326	0.05292
	setup	**CKN (F)**	0.02340	0.06384	0.14592

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7L	CKN	0.00403	0.00476	0.00741
	CKN	-0.00007	-0.00002	0.00002
	CKN	0.00005	0.00006	0.00006
	CKN	0.00523	0.00594	0.00861

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7L	CKN	0.00365	0.00441	0.00752
	CKN	0.00000	0.00002	0.00007
	CKN	-0.00006	0.00000	0.00003
	CKN	0.00228	0.00303	0.00613

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7L	0.00279	0.00314	0.00444
	0.00001	0.00001	0.00002
	-0.00000	-0.00000	0.00000
	0.00401	0.00437	0.00567

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7L	0.00194	0.00230	0.00352
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00089	0.00123	0.00246

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7L	0.00110	0.00130	0.00201
	0.00005	0.00006	0.00007
	-0.00006	-0.00006	-0.00005
	0.00182	0.00202	0.00273

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7L	0.00209	0.00231	0.00311
	-0.00007	-0.00006	-0.00005
	0.00005	0.00006	0.00006
	0.00137	0.00158	0.00238

ICGNX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX4H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX4H7L	0.00196	0.00079	0.18189

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX4H7L	0.00000	6.23260	7.01247

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7L	CKN->ECK (RR)	0.02420	0.15600	0.47782

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7L	CKN->ECK (FF)	0.04312	0.17194	0.48229

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX4H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7L	**hold**	**CKN (F)**	0.00759	0.05365	0.15517
	setup	**CKN (F)**	-0.00198	0.05409	0.13150

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7L	**hold**	**CKN (F)**	-0.03032	0.00356	0.05449
	setup	**CKN (F)**	0.02351	0.06353	0.14449

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7L	CKN	0.00433	0.00509	0.00802
	CKN	-0.00006	-0.00003	0.00003
	CKN	0.00006	0.00007	0.00008
	CKN	0.00548	0.00623	0.00919

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7L	CKN	0.00397	0.00475	0.00819
	CKN	0.00000	0.00003	0.00006
	CKN	-0.00007	-0.00001	-0.00000
	CKN	0.00261	0.00339	0.00684

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7L	0.00281	0.00316	0.00445
	-0.00000	0.00001	0.00003
	0.00000	0.00000	0.00000
	0.00402	0.00438	0.00568

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7L	0.00194	0.00229	0.00351
	0.00000	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00089	0.00123	0.00245

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7L	0.00111	0.00130	0.00201
	0.00006	0.00006	0.00006
	-0.00006	-0.00005	-0.00005
	0.00182	0.00202	0.00273

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7L	0.00210	0.00232	0.00311
	-0.00006	-0.00006	-0.00006
	0.00005	0.00005	0.00006
	0.00137	0.00159	0.00238

ICGX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX0P5H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX0P5H7L	0.00163	0.00076	0.06302

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX0P5H7L	0.00000	4.04552	4.86769

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7L	CK->ECK (RR)	0.02652	0.15018	0.46210

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7L	CK->ECK (FF)	0.02587	0.13546	0.41392

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX0P5H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7L	**hold**	**CK (R)**	-0.04780	-0.01829	-0.00355
	setup	**CK (R)**	0.04427	0.08309	0.17144

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7L	**hold**	**CK (R)**	-0.07914	-0.00840	0.03054
	setup	**CK (R)**	0.01852	0.05538	0.12415

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7L	CK	0.00193	0.00253	0.00473
	CK	-0.00000	0.00001	0.00005
	CK	-0.00000	0.00000	0.00007
	CK	0.00313	0.00373	0.00594

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7L	CK	0.00425	0.00494	0.00726
	CK	-0.00005	-0.00001	0.00001
	CK	0.00004	0.00006	0.00010
	CK	0.00296	0.00363	0.00594

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7L	0.00138	0.00169	0.00278
	-0.00002	-0.00001	0.00001
	0.00002	0.00002	0.00002
	0.00236	0.00266	0.00376

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7L	0.00342	0.00385	0.00545
	0.00006	0.00006	0.00007
	-0.00002	-0.00002	-0.00002
	0.00261	0.00306	0.00466

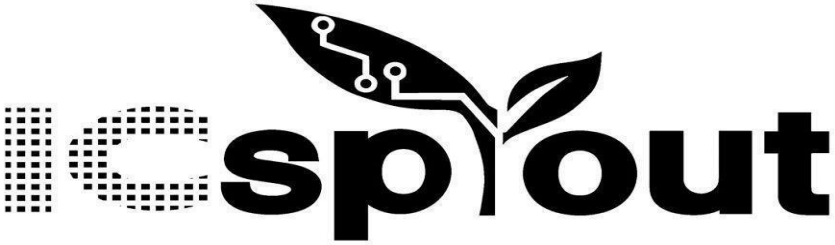
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7L	0.00110	0.00130	0.00203
	0.00005	0.00005	0.00006
	-0.00005	-0.00005	-0.00004
	0.00172	0.00192	0.00266

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7L	0.00168	0.00190	0.00272
	-0.00006	-0.00005	-0.00005
	0.00004	0.00005	0.00005
	0.00105	0.00128	0.00210

ICGX1H7L



Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX1H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX1H7L	0.00167	0.00076	0.07476

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX1H7L	0.00000	4.14117	5.01928

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7L	CK->ECK (RR)	0.02501	0.14798	0.45754

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7L	CK->ECK (FF)	0.02576	0.13742	0.42068

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX1H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7L	**hold**	**CK (R)**	-0.04565	-0.01758	-0.00355
	setup	**CK (R)**	0.04396	0.08391	0.17429

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7L	**hold**	**CK (R)**	-0.07914	-0.00827	0.02905
	setup	**CK (R)**	0.02113	0.05690	0.12852

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7L	CK	0.00191	0.00258	0.00487
	CK	0.00000	0.00001	0.00006
	CK	-0.00006	0.00000	0.00005
	CK	0.00315	0.00380	0.00609

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7L	CK	0.00429	0.00498	0.00737
	CK	-0.00006	-0.00001	0.00002
	CK	0.00002	0.00005	0.00010
	CK	0.00294	0.00364	0.00603

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7L	0.00138	0.00169	0.00278
	-0.00002	-0.00001	-0.00000
	0.00002	0.00002	0.00002
	0.00238	0.00268	0.00378

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7L	0.00339	0.00383	0.00545
	0.00006	0.00007	0.00009
	-0.00002	-0.00002	-0.00002
	0.00258	0.00303	0.00465

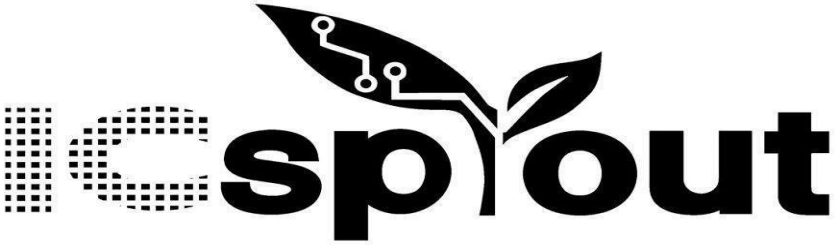
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7L	0.00107	0.00129	0.00203
	0.00005	0.00006	0.00006
	-0.00005	-0.00005	-0.00004
	0.00171	0.00191	0.00265

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7L	0.00166	0.00189	0.00270
	-0.00006	-0.00005	-0.00005
	0.00004	0.00005	0.00005
	0.00104	0.00127	0.00209

ICGX2H7L



Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX2H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX2H7L	0.00180	0.00076	0.08614

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX2H7L	0.00000	4.21097	5.18312

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7L	CK->ECK (RR)	0.02545	0.14914	0.45950

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7L	CK->ECK (FF)	0.02640	0.13911	0.42405

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX2H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7L	**hold**	**CK (R)**	-0.04565	-0.01734	-0.00355
	setup	**CK (R)**	0.04363	0.08325	0.17478

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7L	**hold**	**CK (R)**	-0.07914	-0.00747	0.03197
	setup	**CK (R)**	0.01820	0.05542	0.12743

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7L	CK	0.00196	0.00263	0.00495
	CK	-0.00000	0.00000	0.00007
	CK	0.00000	0.00001	0.00007
	CK	0.00326	0.00393	0.00625

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7L	CK	0.00439	0.00509	0.00753
	CK	-0.00000	0.00000	0.00003
	CK	0.00001	0.00005	0.00008
	CK	0.00297	0.00368	0.00611

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7L	0.00136	0.00167	0.00276
	-0.00003	-0.00001	0.00000
	0.00002	0.00002	0.00002
	0.00243	0.00273	0.00383

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7L	0.00342	0.00387	0.00548
	0.00005	0.00007	0.00008
	-0.00002	-0.00002	-0.00002
	0.00253	0.00299	0.00460

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7L	0.00108	0.00128	0.00202
	0.00005	0.00005	0.00006
	-0.00005	-0.00005	-0.00004
	0.00170	0.00190	0.00264

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7L	0.00167	0.00190	0.00271
	-0.00006	-0.00005	-0.00005
	0.00004	0.00005	0.00005
	0.00104	0.00127	0.00210

ICGX3H7L

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX3H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX3H7L	0.00185	0.00076	0.13367

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX3H7L	0.00000	4.71827	6.18961

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7L	CK->ECK (RR)	0.02615	0.15233	0.46205

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7L	CK->ECK (FF)	0.03140	0.15410	0.45628

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX3H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7L	**hold**	**CK (R)**	-0.04565	-0.01718	-0.00355
	setup	**CK (R)**	0.04252	0.08531	0.18640

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7L	**hold**	**CK (R)**	-0.07698	-0.00709	0.03197
	setup	**CK (R)**	0.01511	0.05460	0.12962

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7L	CK	0.00235	0.00304	0.00567
	CK	-0.00001	-0.00000	0.00001
	CK	-0.00004	0.00002	0.00009
	CK	0.00365	0.00435	0.00698

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7L	CK	0.00489	0.00563	0.00851
	CK	-0.00001	0.00000	0.00006
	CK	0.00002	0.00004	0.00008
	CK	0.00344	0.00420	0.00708

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7L	0.00136	0.00166	0.00274
	-0.00002	-0.00001	0.00000
	0.00002	0.00002	0.00003
	0.00243	0.00273	0.00383

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7L	0.00346	0.00391	0.00556
	0.00006	0.00007	0.00008
	-0.00003	-0.00002	-0.00002
	0.00257	0.00303	0.00468

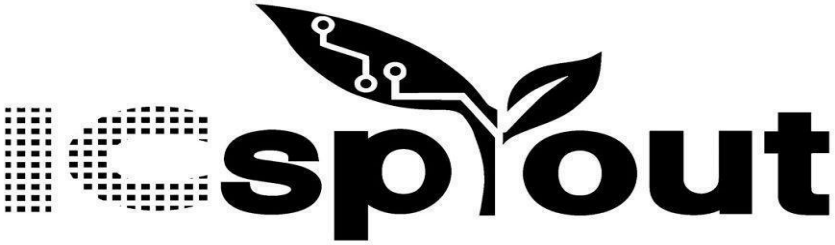
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7L	0.00110	0.00130	0.00204
	0.00005	0.00005	0.00006
	-0.00005	-0.00004	-0.00004
	0.00173	0.00193	0.00266

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7L	0.00168	0.00190	0.00272
	-0.00006	-0.00005	-0.00005
	0.00004	0.00005	0.00005
	0.00105	0.00128	0.00210

ICGX4H7L



Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX4H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX4H7L	0.00185	0.00076	0.17176

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX4H7L	0.00000	4.95442	6.74681

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7L	CK->ECK (RR)	0.02720	0.15532	0.46691

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7L	CK->ECK (FF)	0.03324	0.15782	0.46118

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX4H7L	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7L	**hold**	**CK (R)**	-0.04565	-0.01726	-0.00355
	setup	**CK (R)**	0.04373	0.08480	0.18159

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7L	**hold**	**CK (R)**	-0.07698	-0.00701	0.03197
	setup	**CK (R)**	0.01172	0.05175	0.12200

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7L	CK	0.00256	0.00327	0.00612
	CK	-0.00003	-0.00000	0.00003
	CK	-0.00006	0.00003	0.00008
	CK	0.00385	0.00456	0.00742

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7L	CK	0.00503	0.00583	0.00901
	CK	0.00000	0.00001	0.00007
	CK	0.00002	0.00003	0.00008
	CK	0.00363	0.00443	0.00760

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7L	0.00135	0.00165	0.00274
	-0.00002	-0.00001	0.00001
	0.00002	0.00002	0.00002
	0.00243	0.00273	0.00382

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7L	0.00345	0.00391	0.00556
	0.00006	0.00007	0.00008
	-0.00002	-0.00002	-0.00002
	0.00257	0.00303	0.00468

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7L	0.00110	0.00130	0.00204
	0.00005	0.00005	0.00006
	-0.00005	-0.00005	-0.00004
	0.00173	0.00193	0.00266

Passive power(pJ) for E falling :

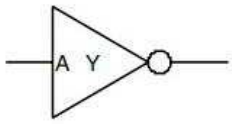
Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7L	0.00168	0.00190	0.00272
	-0.00006	-0.00005	-0.00005
	0.00004	0.00005	0.00005
	0.00106	0.00128	0.00210

INVX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P5H7L	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P5H7L	0.00074	0.04317

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P5H7L	0.00000	0.65649	1.09086

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7L	A->Y (FR)	0.01437	0.16664	0.65298

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7L	A->Y (RF)	-0.00407	0.10494	0.46284

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7L	A	0.00043	0.00061	0.00175
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00001
	A	-0.00012	0.00006	0.00120

Internal switching power(pJ) to Y falling :

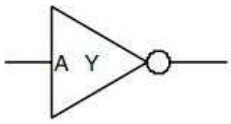
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7L	A	-0.00007	0.00008	0.00113
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00001
	A	0.00043	0.00062	0.00169

INVX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P7H7L	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P7H7L	0.00080	0.04909

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P7H7L	0.00000	0.69827	1.16264

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7L	A->Y (FR)	0.01340	0.16595	0.65416

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7L	A->Y (RF)	-0.00704	0.10368	0.46171

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7L	A	0.00044	0.00065	0.00193
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00014	0.00006	0.00133

Internal switching power(pJ) to Y falling :

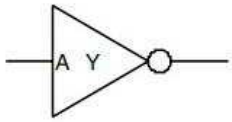
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7L	A	-0.00008	0.00009	0.00126
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00002
	A	0.00046	0.00068	0.00186

INVX10H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX10H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX10H7L	0.00521	0.39367

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX10H7L	0.00000	5.18396	8.76908

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7L	**A->Y (FR)**	0.00818	0.16119	0.65908

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7L	**A->Y (RF)**	-0.02977	0.09663	0.45408

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7L	A	0.00264	0.00446	0.01535
	A	-0.00014	-0.00014	-0.00013
	A	0.00013	0.00014	0.00014
	A	-0.00113	0.00061	0.01134

Internal switching power(pJ) to Y falling :

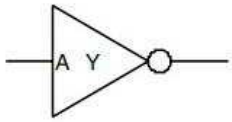
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7L	A	-0.00071	0.00074	0.01063
	A	0.00014	0.00014	0.00014
	A	-0.00014	-0.00014	-0.00013
	A	0.00279	0.00458	0.01463

INVX12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX12H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX12H7L	0.00834	0.51755

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX12H7L	0.00000	7.87783	13.09030

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7L	A->Y (FR)	0.00901	0.16037	0.65247

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7L	A->Y (RF)	-0.02526	0.09994	0.46346

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7L	A	0.00445	0.00681	0.02224
	A	-0.00017	-0.00017	-0.00015
	A	0.00016	0.00017	0.00017
	A	-0.00182	0.00068	0.01592

Internal switching power(pJ) to Y falling :

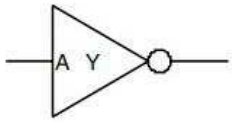
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7L	A	-0.00103	0.00114	0.01524
	A	0.00016	0.00017	0.00017
	A	-0.00017	-0.00017	-0.00016
	A	0.00499	0.00725	0.02154

INVX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX16H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX16H7L	0.00950	0.50254

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX16H7L	0.00000	9.98657	17.85250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7L	**A->Y (FR)**	0.01017	0.16602	0.66049

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7L	**A->Y (RF)**	-0.05105	0.06477	0.33356

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7L	A	0.00508	0.00786	0.02493
	A	-0.00018	-0.00017	-0.00016
	A	0.00027	0.00028	0.00028
	A	-0.00214	0.00081	0.01767

Internal switching power(pJ) to Y falling :

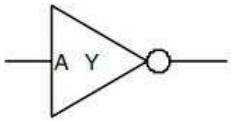
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7L	A	-0.00099	0.00143	0.01662
	A	0.00017	0.00017	0.00018
	A	-0.00028	-0.00028	-0.00026
	A	0.00556	0.00846	0.02388

INVX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1H7L	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1H7L	0.00082	0.05851

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1H7L	0.00000	0.76889	1.28301

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7L	A->Y (FR)	0.01182	0.16466	0.65656

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7L	A->Y (RF)	-0.01127	0.10346	0.46522

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7L	A	0.00044	0.00068	0.00219
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00016	0.00008	0.00156

Internal switching power(pJ) to Y falling :

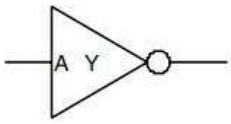
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7L	A	-0.00010	0.00010	0.00147
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00002
	A	0.00041	0.00070	0.00210

INVX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1P4H7L	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1P4H7L	0.00093	0.06680

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1P4H7L	0.00000	0.84766	1.41765

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7L	**A->Y (FR)**	0.01134	0.16443	0.65782

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7L	**A->Y (RF)**	-0.01371	0.10255	0.46403

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7L	A	0.00051	0.00077	0.00247
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00018	0.00008	0.00176

Internal switching power(pJ) to Y falling :

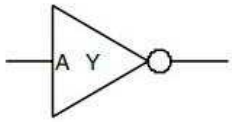
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7L	A	-0.00011	0.00011	0.00165
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00002
	A	0.00052	0.00079	0.00237

INVX20H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX20H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX20H7L	0.00992	0.78617

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX20H7L	0.00000	10.10070	17.00350

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7L	**A->Y (FR)**	0.00748	0.16034	0.65785

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7L	**A->Y (RF)**	-0.03097	0.09673	0.45622

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7L	A	0.00535	0.00861	0.03036
	A	-0.00028	-0.00027	-0.00027
	A	0.00026	0.00027	0.00028
	A	-0.00222	0.00126	0.02271

Internal switching power(pJ) to Y falling :

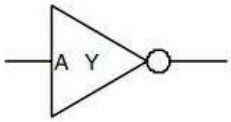
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7L	A	-0.00142	0.00151	0.02134
	A	0.00027	0.00028	0.00029
	A	-0.00028	-0.00027	-0.00026
	A	0.00477	0.00879	0.02898

INVX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2H7L	0.00140	0.08625

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2H7L	0.00000	1.31297	2.18171

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7L	A->Y (FR)	0.01154	0.16333	0.65247

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7L	A->Y (RF)	-0.01472	0.10235	0.46299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7L	A	0.00080	0.00117	0.00361
	A	-0.00003	-0.00003	-0.00002
	A	0.00003	0.00003	0.00003
	A	-0.00025	0.00015	0.00255

Internal switching power(pJ) to Y falling :

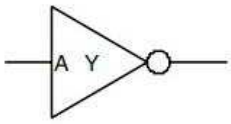
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7L	A	-0.00016	0.00018	0.00240
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00003
	A	0.00086	0.00120	0.00346

INVX2P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2P5H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2P5H7L	0.00154	0.10479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2P5H7L	0.00000	1.44462	2.40712

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7L	A->Y (FR)	0.01026	0.16234	0.65531

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7L	A->Y (RF)	-0.01898	0.10117	0.46318

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7L	A	0.00081	0.00124	0.00413
	A	-0.00004	-0.00003	-0.00003
	A	0.00003	0.00003	0.00004
	A	-0.00034	0.00011	0.00295

Internal switching power(pJ) to Y falling :

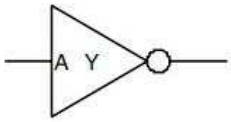
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7L	A	-0.00018	0.00020	0.00283
	A	0.00003	0.00003	0.00004
	A	-0.00004	-0.00003	-0.00003
	A	0.00090	0.00133	0.00400

INVX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3H7L	0.00196	0.12964

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3H7L	0.00000	1.67264	2.67881

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7L	A->Y (FR)	0.01047	0.16158	0.65268

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7L	A->Y (RF)	-0.01231	0.10639	0.47928

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7L	A	0.00115	0.00167	0.00514
	A	-0.00004	-0.00004	-0.00004
	A	0.00004	0.00004	0.00004
	A	-0.00032	0.00023	0.00366

Internal switching power(pJ) to Y falling :

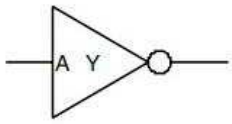
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7L	A	-0.00024	0.00024	0.00344
	A	0.00004	0.00004	0.00004
	A	-0.00004	-0.00004	-0.00004
	A	0.00101	0.00166	0.00492

INVX3P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3P5H7L	0.00200	0.13991

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3P5H7L	0.00000	2.03294	3.48775

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7L	A->Y (FR)	0.00976	0.16300	0.65755

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7L	A->Y (RF)	-0.02712	0.09549	0.44509

Power Information

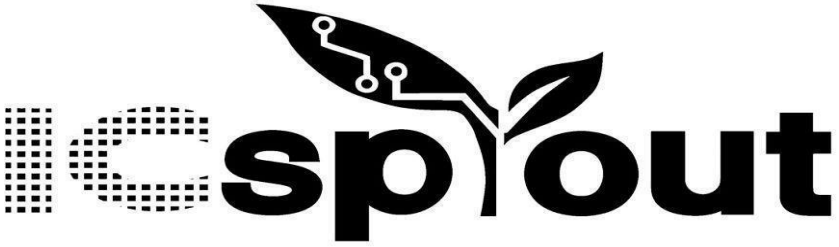
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7L	A	0.00108	0.00166	0.00560
	A	-0.00005	-0.00005	-0.00004
	A	0.00005	0.00005	0.00005
	A	-0.00045	0.00018	0.00407

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7L	A	-0.00024	0.00028	0.00384
	A	0.00005	0.00005	0.00005
	A	-0.00005	-0.00005	-0.00005
	A	0.00116	0.00175	0.00537

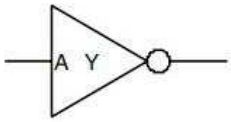
INVX4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX4H7L	0.00272	0.17264

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX4H7L	0.00000	2.62594	4.36343

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7L	A->Y (FR)	0.00992	0.16132	0.65232

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7L	A->Y (RF)	-0.02145	0.10073	0.46323

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7L	A	0.00147	0.00224	0.00730
	A	-0.00006	-0.00006	-0.00005
	A	0.00005	0.00006	0.00006
	A	-0.00056	0.00025	0.00523

Internal switching power(pJ) to Y falling :

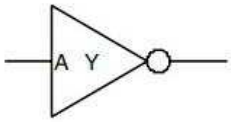
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7L	A	-0.00032	0.00038	0.00499
	A	0.00005	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00005
	A	0.00156	0.00236	0.00705

INVX5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX5H7L	0.00265	0.20107

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX5H7L	0.00000	2.57467	4.31312

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7L	A->Y (FR)	0.00880	0.16146	0.65757

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7L	A->Y (RF)	-0.02511	0.09897	0.46031

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7L	A	0.00142	0.00225	0.00771
	A	-0.00007	-0.00007	-0.00007
	A	0.00007	0.00007	0.00007
	A	-0.00057	0.00029	0.00567

Internal switching power(pJ) to Y falling :

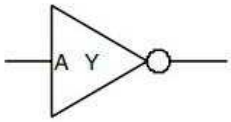
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7L	A	-0.00035	0.00037	0.00534
	A	0.00007	0.00007	0.00007
	A	-0.00007	-0.00007	-0.00006
	A	0.00153	0.00233	0.00738

INVX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX6H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX6H7L	0.00407	0.25903

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX6H7L	0.00000	3.93891	6.54514

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7L	A->Y (FR)	0.00941	0.16081	0.65246

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7L	A->Y (RF)	-0.02349	0.10033	0.46262

Power Information

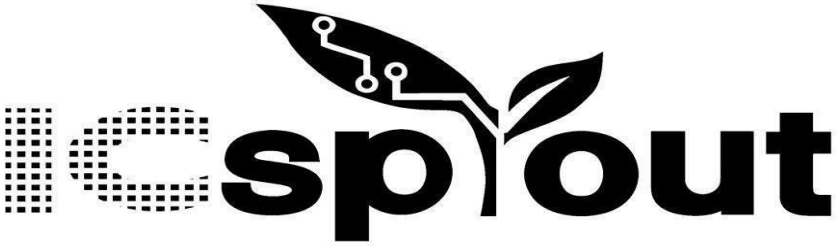
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7L	A	0.00220	0.00336	0.01103
	A	-0.00009	-0.00008	-0.00007
	A	0.00008	0.00008	0.00009
	A	-0.00086	0.00038	0.00793

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7L	A	-0.00050	0.00057	0.00756
	A	0.00008	0.00008	0.00009
	A	-0.00009	-0.00008	-0.00008
	A	0.00247	0.00354	0.01063

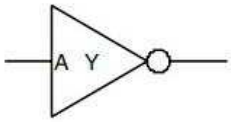
INVX7H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX7H7L	0.00429	0.31466

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX7H7L	0.00000	4.20061	7.12219

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7L	A->Y (FR)	0.00853	0.16159	0.65945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7L	A->Y (RF)	-0.02909	0.09644	0.45209

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7L	A	0.00237	0.00365	0.01235
	A	-0.00011	-0.00011	-0.00011
	A	0.00010	0.00011	0.00011
	A	-0.00090	0.00048	0.00905

Internal switching power(pJ) to Y falling :

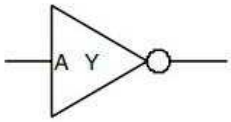
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7L	A	-0.00058	0.00059	0.00848
	A	0.00011	0.00011	0.00011
	A	-0.00011	-0.00011	-0.00010
	A	0.00231	0.00373	0.01177

INVX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX8H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX8H7L	0.00537	0.34530

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX8H7L	0.00000	5.25188	8.72685

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7L	A->Y (FR)	0.00899	0.16037	0.65230

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7L	A->Y (RF)	-0.02497	0.09995	0.46324

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7L	A	0.00285	0.00442	0.01469
	A	-0.00012	-0.00011	-0.00011
	A	0.00011	0.00011	0.00011
	A	-0.00118	0.00047	0.01062

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7L	A	-0.00066	0.00077	0.01017
	A	0.00011	0.00011	0.00012
	A	-0.00011	-0.00011	-0.00010
	A	0.00321	0.00470	0.01424

LATHRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX0P5H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**RN**	**Q**	**QN**
LATHRX0P5H7L	0.00079	0.00100	0.00096	0.06286	0.06309

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHRX0P5H7L	0.00000	4.65495	7.35125

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7L	D->Q (RR)	-	0.05658	0.20150	0.54739
	G->Q (RR)	RN	0.07078	0.20676	0.51831
	RN->Q (RR)	-	0.05779	0.19856	0.53555

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7L	D->Q (FF)	-	0.04773	0.17514	0.47317
	G->Q (RF)	RN	0.06237	0.16803	0.39730
	RN->Q (FF)	-	0.04698	0.17837	0.48955

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7L	D->QN (FR)	-	0.07437	0.22352	0.59121
	G->QN (RR)	RN	0.08911	0.21888	0.53596
	RN->QN (FR)	-	0.07189	0.22743	0.60979

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7L	D->QN (RF)	-	0.07998	0.18250	0.42211
	G->QN (RF)	RN	0.09446	0.18905	0.40416
	RN->QN (RF)	-	0.08119	0.17955	0.41059

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7L	hold	G (F)	-0.06526	-0.00236	0.07631
	setup	G (F)	-0.04721	0.02301	0.09404

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7L	hold	G (F)	-0.08395	-0.01852	0.04098
	setup	G (F)	0.01108	0.05379	0.14107

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX0P5H7L	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7L	recovery	G (F)	-0.04319	0.02026	0.08541
	removal	G (F)	-0.05915	-0.00038	0.07519

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7L	D	-	0.00112	0.00128	0.00192
	D	-	0.00003	0.00004	0.00004
	D	-	-0.00003	-0.00003	-0.00002
	D	-	0.00149	0.00165	0.00229
	G	RN	0.00152	0.00172	0.00238
	G	RN	0.00001	0.00002	0.00003
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00199	0.00219	0.00287
	RN	-	0.00114	0.00123	0.00167
	RN	-	0.00003	0.00004	0.00004
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00166	0.00177	0.00221

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7L	D	-	0.00142	0.00161	0.00238
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00002	0.00003	0.00004
	D	-	0.00104	0.00124	0.00201
	G	RN	0.00161	0.00180	0.00246
	G	RN	-0.00003	-0.00002	-0.00001
	G	RN	0.00000	0.00001	0.00002
	G	RN	0.00191	0.00211	0.00277
	RN	-	0.00151	0.00167	0.00231
	RN	-	-0.00003	-0.00003	-0.00001
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00105	0.00121	0.00179

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7L	D	-	0.00142	0.00161	0.00238
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00003	0.00003	0.00003
	D	-	0.00105	0.00124	0.00201
	G	RN	0.00161	0.00180	0.00246
	G	RN	-0.00002	-0.00002	-0.00001
	G	RN	0.00001	0.00001	0.00001
	G	RN	0.00191	0.00211	0.00277
	RN	-	0.00150	0.00167	0.00231
	RN	-	-0.00004	-0.00003	-0.00000
	RN	-	0.00002	0.00005	0.00007
	RN	-	0.00105	0.00121	0.00179

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7L	D	-	0.00112	0.00128	0.00192
	D	-	0.00003	0.00004	0.00004
	D	-	-0.00003	-0.00003	-0.00003
	D	-	0.00149	0.00165	0.00229
	G	RN	0.00153	0.00172	0.00238
	G	RN	0.00001	0.00002	0.00002
	G	RN	-0.00001	-0.00001	-0.00001
	G	RN	0.00200	0.00219	0.00286
	RN	-	0.00113	0.00123	0.00167
	RN	-	0.00003	0.00004	0.00005
	RN	-	-0.00005	-0.00005	-0.00002
	RN	-	0.00167	0.00177	0.00221

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	-0.00001	0.00034	0.00146
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00058	0.00093	0.00205

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	0.00049	0.00089	0.00212
	-0.00004	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	-0.00009	0.00030	0.00153

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	0.00076	0.00110	0.00229
	-0.00000	0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00154	0.00188	0.00307

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	0.00176	0.00215	0.00346
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00099	0.00138	0.00269

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	-0.00015	-0.00015	-0.00015
	-0.00000	-0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00039	0.00040	0.00040

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7L	0.00020	0.00021	0.00023
	-0.00000	0.00000	0.00000
	-0.00002	-0.00001	-0.00001
	-0.00034	-0.00033	-0.00031

LATHRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX1H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	RN	Q	QN
LATHRX1H7L	0.00079	0.00100	0.00096	0.07446	0.07469

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHRX1H7L	0.00000	4.84064	7.53699

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7L	D->Q (RR)	-	0.05600	0.20214	0.54947
	G->Q (RR)	RN	0.07028	0.20723	0.51944
	RN->Q (RR)	-	0.05723	0.19914	0.53769

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7L	D->Q (FF)	-	0.04738	0.17624	0.47656
	G->Q (RF)	RN	0.06193	0.16893	0.39965
	RN->Q (FF)	-	0.04657	0.17934	0.49279

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7L	D->QN (FR)	-	0.07517	0.22447	0.59319
	G->QN (RR)	RN	0.08983	0.21952	0.53673
	RN->QN (FR)	-	0.07239	0.22823	0.61152

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7L	D->QN (RF)	-	0.08090	0.18429	0.42588
	G->QN (RF)	RN	0.09545	0.19062	0.40691
	RN->QN (RF)	-	0.08213	0.18127	0.41390

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7L	hold	G (F)	-0.06885	-0.00288	0.07938
	setup	G (F)	-0.04579	0.02446	0.09687

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7L	hold	G (F)	-0.08395	-0.01850	0.04425
	setup	G (F)	0.01076	0.05562	0.14174

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX1H7L	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7L	recovery	G (F)	-0.04197	0.02143	0.08757
	removal	G (F)	-0.05958	-0.00112	0.07332

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7L	D	-	0.00117	0.00134	0.00201
	D	-	0.00003	0.00004	0.00005
	D	-	-0.00003	-0.00003	-0.00001
	D	-	0.00154	0.00170	0.00238
	G	RN	0.00157	0.00177	0.00242
	G	RN	0.00001	0.00002	0.00002
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00204	0.00224	0.00291
	RN	-	0.00118	0.00128	0.00175
	RN	-	0.00004	0.00004	0.00004
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00172	0.00182	0.00229

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7L	D	-	0.00146	0.00166	0.00248
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00001	0.00003	0.00004
	D	-	0.00110	0.00129	0.00211
	G	RN	0.00165	0.00185	0.00252
	G	RN	-0.00002	-0.00002	-0.00001
	G	RN	0.00000	0.00001	0.00003
	G	RN	0.00195	0.00215	0.00282
	RN	-	0.00154	0.00171	0.00241
	RN	-	-0.00004	-0.00003	0.00000
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00111	0.00127	0.00189

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7L	D	-	0.00146	0.00166	0.00248
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00001	0.00003	0.00004
	D	-	0.00110	0.00130	0.00211
	G	RN	0.00165	0.00185	0.00252
	G	RN	-0.00003	-0.00002	-0.00001
	G	RN	0.00001	0.00001	0.00003
	G	RN	0.00196	0.00215	0.00283
	RN	-	0.00156	0.00172	0.00241
	RN	-	-0.00003	-0.00003	-0.00002
	RN	-	0.00005	0.00005	0.00005
	RN	-	0.00111	0.00127	0.00189

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7L	D	-	0.00117	0.00133	0.00201
	D	-	0.00003	0.00004	0.00005
	D	-	-0.00003	-0.00003	-0.00001
	D	-	0.00153	0.00170	0.00238
	G	RN	0.00157	0.00177	0.00243
	G	RN	0.00001	0.00002	0.00003
	G	RN	-0.00002	-0.00001	-0.00001
	G	RN	0.00203	0.00224	0.00291
	RN	-	0.00118	0.00128	0.00175
	RN	-	0.00003	0.00004	0.00005
	RN	-	-0.00005	-0.00005	-0.00004
	RN	-	0.00171	0.00182	0.00228

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	-0.00001	0.00034	0.00146
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00058	0.00093	0.00205

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	0.00049	0.00089	0.00212
	-0.00004	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	-0.00009	0.00030	0.00152

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	0.00076	0.00110	0.00228
	-0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00154	0.00188	0.00307

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	0.00176	0.00215	0.00347
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00100	0.00138	0.00270

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	-0.00015	-0.00015	-0.00015
	-0.00000	-0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00039	0.00040	0.00041

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7L	0.00020	0.00021	0.00023
	0.00000	0.00000	0.00000
	-0.00002	-0.00001	0.00000
	-0.00034	-0.00033	-0.00031

LATHRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX2H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	RN	Q	QN
LATHRX2H7L	0.00089	0.00100	0.00096	0.09438	0.09471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHRX2H7L	0.00000	6.15203	9.11781

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7L	D->Q (RR)	-	0.05382	0.20048	0.54853
	G->Q (RR)	RN	0.06828	0.20613	0.52005
	RN->Q (RR)	-	0.05474	0.19593	0.52904

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7L	D->Q (FF)	-	0.04491	0.17481	0.47726
	G->Q (RF)	RN	0.06019	0.16981	0.40663
	RN->Q (FF)	-	0.06237	0.21031	0.55434

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7L	D->QN (FR)	-	0.07400	0.22268	0.59053
	G->QN (RR)	RN	0.08931	0.21945	0.53849
	RN->QN (FR)	-	0.09421	0.25591	0.65997

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7L	D->QN (RF)	-	0.08021	0.18525	0.43143
	G->QN (RF)	RN	0.09490	0.19185	0.41372
	RN->QN (RF)	-	0.08115	0.18065	0.41278

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7L	hold	G (F)	-0.06473	0.00018	0.08228
	setup	G (F)	-0.05216	0.02150	0.09761

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7L	hold	G (F)	-0.08268	-0.01547	0.04728
	setup	G (F)	0.00970	0.05405	0.14230

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX2H7L	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7L	recovery	G (F)	-0.04798	0.01783	0.08069
	removal	G (F)	-0.05039	0.00389	0.07900

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7L	D	-	0.00143	0.00163	0.00250
	D	-	0.00004	0.00004	0.00004
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00183	0.00204	0.00291
	G	RN	0.00187	0.00208	0.00276
	G	RN	0.00000	0.00001	0.00003
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00233	0.00254	0.00323
	RN	-	0.00146	0.00157	0.00212
	RN	-	0.00004	0.00004	0.00005
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00202	0.00213	0.00269

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7L	D	-	0.00176	0.00200	0.00304
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00002	0.00003	0.00005
	D	-	0.00135	0.00159	0.00263
	G	RN	0.00194	0.00216	0.00288
	G	RN	-0.00003	-0.00001	0.00000
	G	RN	0.00000	0.00001	0.00003
	G	RN	0.00225	0.00246	0.00318
	RN	-	0.00187	0.00206	0.00299
	RN	-	-0.00004	-0.00002	0.00000
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00132	0.00151	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7L	D	-	0.00177	0.00201	0.00304
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00003	0.00003	0.00006
	D	-	0.00136	0.00160	0.00264
	G	RN	0.00195	0.00216	0.00288
	G	RN	-0.00003	-0.00001	-0.00000
	G	RN	0.00000	0.00001	0.00002
	G	RN	0.00225	0.00246	0.00318
	RN	-	0.00188	0.00206	0.00299
	RN	-	-0.00004	-0.00003	-0.00002
	RN	-	0.00005	0.00005	0.00006
	RN	-	0.00132	0.00151	0.00244

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7L	D	-	0.00143	0.00163	0.00250
	D	-	0.00003	0.00004	0.00005
	D	-	-0.00003	-0.00003	-0.00003
	D	-	0.00183	0.00204	0.00291
	G	RN	0.00187	0.00208	0.00275
	G	RN	0.00000	0.00001	0.00003
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00233	0.00254	0.00323
	RN	-	0.00145	0.00157	0.00212
	RN	-	0.00003	0.00004	0.00005
	RN	-	-0.00006	-0.00005	-0.00005
	RN	-	0.00201	0.00213	0.00269

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	-0.00002	0.00039	0.00170
	0.00004	0.00005	0.00005
	-0.00005	-0.00005	-0.00004
	0.00065	0.00107	0.00238

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	0.00057	0.00104	0.00247
	-0.00005	-0.00005	-0.00004
	0.00004	0.00005	0.00005
	-0.00011	0.00036	0.00179

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	0.00084	0.00119	0.00241
	-0.00000	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00161	0.00196	0.00319

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	0.00183	0.00222	0.00357
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00107	0.00146	0.00281

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	-0.00000
	0.00001	0.00001	0.00002
	0.00037	0.00039	0.00039

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7L	0.00018	0.00019	0.00021
	0.00000	0.00000	0.00000
	-0.00002	-0.00001	-0.00001
	-0.00037	-0.00035	-0.00033

LATHSRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX0P5H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX0P5H7L	0.00075	0.00098	0.00081	0.00084	0.06277	0.06298

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX0P5H7L	0.00000	5.71930	7.62993

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7L	D->Q (RR)	-	0.06740	0.21814	0.56949
	G->Q (RR)	(RN * SN)	0.08575	0.22667	0.54402
	RN->Q (RR)	(D * G * SN)	0.07130	0.21873	0.56378
	SN->Q (FR)	(D * !G * RN)	0.05338	0.19853	0.55516
	SN->Q (FR)	(D * !G * !RN)	0.05472	0.20198	0.56142
	SN->Q (FR)	(!D * G * RN)	0.05540	0.20227	0.56098
	SN->Q (FR)	(!D * G * !RN)	0.05678	0.20342	0.56218
	SN->Q (FR)	(!D * !G * RN)	0.05349	0.19890	0.55578
	SN->Q (FR)	(!D * !G * !RN)	0.05585	0.20286	0.56219

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7L	D->Q (FF)	-	0.08131	0.22679	0.55561
	G->Q (RF)	(RN * SN)	0.08197	0.19980	0.43764
	RN->Q (FF)	(D * G * SN)	0.09029	0.24142	0.58819
	RN->Q (FF)	(D * !G * SN)	0.08860	0.23296	0.55946
	RN->Q (FF)	(!D * !G * SN)	0.08179	0.22581	0.55051
	SN->Q (RF)	(!D * G * RN)	0.09851	0.20749	0.42869
	SN->Q (RF)	(!D * G * !RN)	0.08068	0.18196	0.39881

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7L	D->QN (FR)	-	0.11804	0.27266	0.66272
	G->QN (RR)	(RN * SN)	0.11904	0.24662	0.56130
	RN->QN (FR)	(D * G * SN)	0.12729	0.28763	0.69511
	RN->QN (FR)	(D * !G * SN)	0.12477	0.28376	0.68700
	RN->QN (FR)	(!D * !G * SN)	0.11762	0.27621	0.67630
	SN->QN (RR)	(!D * G * RN)	0.13529	0.25435	0.55329
	SN->QN (RR)	(!D * G * !RN)	0.11184	0.23254	0.53416

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7L	D->QN (RF)	-	0.09621	0.20020	0.44219
	G->QN (RF)	(RN * SN)	0.11482	0.20981	0.42755
	RN->QN (RF)	(D * G * SN)	0.10018	0.20075	0.43592
	SN->QN (FF)	(D * !G * RN)	0.07772	0.18596	0.44743
	SN->QN (FF)	(D * !G * !RN)	0.07923	0.18804	0.45051
	SN->QN (FF)	(!D * G * RN)	0.08027	0.18882	0.45124
	SN->QN (FF)	(!D * G * !RN)	0.08076	0.18916	0.45202
	SN->QN (FF)	(!D * !G * RN)	0.07797	0.18638	0.44827
	SN->QN (FF)	(!D * !G * !RN)	0.08042	0.18921	0.45204

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7L	hold	G (F)	-0.07223	-0.00692	0.07536
	setup	G (F)	-0.03666	0.02934	0.10277

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7L	hold	G (F)	-0.14308	-0.04988	0.01785
	setup	G (F)	0.02988	0.09983	0.21531

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX0P5H7L	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX0P5H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7L	recovery	G (F)	-0.04094	0.02906	0.09865
	removal	G (F)	-0.06955	-0.00776	0.07585

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7L	recovery	G (F)	0.04811	0.08352	0.10881
	removal	G (F)	-0.06741	-0.04124	-0.00200
	hold	RN (R)	-0.25286	-0.13585	-0.07866
	setup	RN (R)	0.10972	0.18906	0.41663

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7L	**D**	**-**	0.00137	0.00151	0.00208
	D	**-**	0.00002	0.00004	0.00005
	D	**-**	-0.00004	-0.00004	-0.00002
	D	**-**	0.00172	0.00188	0.00245
	G	**(RN * SN)**	0.00193	0.00213	0.00278
	G	**(RN * SN)**	0.00000	0.00002	0.00003
	G	**(RN * SN)**	-0.00003	-0.00002	-0.00001
	G	**(RN * SN)**	0.00238	0.00258	0.00324
	RN	**(D * G * SN)**	0.00137	0.00146	0.00183
	RN	**(D * G * SN)**	0.00003	0.00004	0.00004
	RN	**(D * G * SN)**	-0.00007	-0.00007	-0.00006
	RN	**(D * G * SN)**	0.00186	0.00196	0.00233
	SN	**(D * !G * RN)**	0.00180	0.00206	0.00274
	SN	**(D * !G * RN)**	0.00002	0.00003	0.00004
	SN	**(D * !G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00160	0.00186	0.00254
	SN	**(D * !G * !RN)**	0.00187	0.00213	0.00281
	SN	**(D * !G * !RN)**	0.00003	0.00005	0.00008
	SN	**(D * !G * !RN)**	-0.00006	-0.00005	-0.00003
	SN	**(D * !G * !RN)**	0.00183	0.00208	0.00276
	SN	**(!D * G * RN)**	0.00191	0.00216	0.00284
	SN	**(!D * G * RN)**	0.00005	0.00006	0.00009
	SN	**(!D * G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * RN)**	0.00187	0.00210	0.00279
	SN	**(!D * G * !RN)**	0.00189	0.00214	0.00282
	SN	**(!D * G * !RN)**	0.00004	0.00006	0.00009
	SN	**(!D * G * !RN)**	-0.00002	-0.00002	-0.00001
	SN	**(!D * G * !RN)**	0.00183	0.00208	0.00276
	SN	**(!D * !G * RN)**	0.00182	0.00208	0.00276
	SN	**(!D * !G * RN)**	0.00004	0.00004	0.00006
	SN	**(!D * !G * RN)**	-0.00005	-0.00003	-0.00000
	SN	**(!D * !G * RN)**	0.00165	0.00191	0.00261
	SN	**(!D * !G * !RN)**	0.00187	0.00214	0.00281
	SN	**(!D * !G * !RN)**	0.00004	0.00007	0.00009
	SN	**(!D * !G * !RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !G * !RN)**	0.00185	0.00209	0.00277

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7L	D	-	0.00179	0.00195	0.00265
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00002	0.00004	0.00005
	D	-	0.00142	0.00158	0.00228
	G	(RN * SN)	0.00200	0.00218	0.00282
	G	(RN * SN)	-0.00003	-0.00002	-0.00000
	G	(RN * SN)	0.00001	0.00002	0.00003
	G	(RN * SN)	0.00230	0.00247	0.00311
	RN	(D * G * SN)	0.00201	0.00215	0.00280
	RN	(D * G * SN)	-0.00004	-0.00004	-0.00003
	RN	(D * G * SN)	0.00006	0.00007	0.00009
	RN	(D * G * SN)	0.00150	0.00165	0.00231
	RN	(D * !G * SN)	0.00190	0.00202	0.00260
	RN	(D * !G * SN)	-0.00005	-0.00003	-0.00002
	RN	(D * !G * SN)	0.00004	0.00006	0.00008
	RN	(D * !G * SN)	0.00148	0.00161	0.00220
	RN	(!D * !G * SN)	0.00181	0.00194	0.00252
	RN	(!D * !G * SN)	-0.00004	-0.00003	-0.00002
	RN	(!D * !G * SN)	0.00003	0.00004	0.00006
	RN	(!D * !G * SN)	0.00145	0.00158	0.00218
	SN	(!D * G * RN)	0.00193	0.00211	0.00272
	SN	(!D * G * RN)	-0.00007	-0.00006	-0.00005
	SN	(!D * G * RN)	0.00002	0.00003	0.00005
	SN	(!D * G * RN)	0.00199	0.00217	0.00277
	SN	(!D * G * !RN)	0.00194	0.00214	0.00274
	SN	(!D * G * !RN)	-0.00007	-0.00006	-0.00004
	SN	(!D * G * !RN)	0.00001	0.00003	0.00005
	SN	(!D * G * !RN)	0.00198	0.00218	0.00278

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7L	D	-	0.00178	0.00195	0.00265
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00004	0.00004	0.00006
	D	-	0.00142	0.00158	0.00229
	G	(RN * SN)	0.00201	0.00219	0.00283
	G	(RN * SN)	-0.00002	-0.00002	-0.00000
	G	(RN * SN)	0.00002	0.00002	0.00002
	G	(RN * SN)	0.00230	0.00248	0.00312
	RN	(D * G * SN)	0.00201	0.00215	0.00281
	RN	(D * G * SN)	-0.00004	-0.00004	-0.00004
	RN	(D * G * SN)	0.00007	0.00007	0.00009
	RN	(D * G * SN)	0.00151	0.00166	0.00231
	RN	(D * !G * SN)	0.00190	0.00202	0.00260
	RN	(D * !G * SN)	-0.00004	-0.00003	-0.00003
	RN	(D * !G * SN)	0.00006	0.00006	0.00006
	RN	(D * !G * SN)	0.00149	0.00161	0.00220
	RN	(!D * !G * SN)	0.00181	0.00194	0.00253
	RN	(!D * !G * SN)	-0.00004	-0.00003	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00004	0.00005
	RN	(!D * !G * SN)	0.00145	0.00158	0.00218
	SN	(!D * G * RN)	0.00194	0.00212	0.00272
	SN	(!D * G * RN)	-0.00007	-0.00006	-0.00004
	SN	(!D * G * RN)	0.00003	0.00003	0.00003
	SN	(!D * G * RN)	0.00199	0.00217	0.00278
	SN	(!D * G * !RN)	0.00195	0.00214	0.00275
	SN	(!D * G * !RN)	-0.00006	-0.00006	-0.00005
	SN	(!D * G * !RN)	0.00003	0.00003	0.00003
	SN	(!D * G * !RN)	0.00199	0.00218	0.00278

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7L	**D**	**-**	0.00136	0.00151	0.00208
	D	**-**	0.00003	0.00004	0.00005
	D	**-**	-0.00004	-0.00004	-0.00004
	D	**-**	0.00173	0.00188	0.00245
	G	**(RN * SN)**	0.00194	0.00213	0.00276
	G	**(RN * SN)**	0.00000	0.00002	0.00002
	G	**(RN * SN)**	-0.00002	-0.00002	-0.00002
	G	**(RN * SN)**	0.00239	0.00258	0.00321
	RN	**(D * G * SN)**	0.00137	0.00146	0.00183
	RN	**(D * G * SN)**	0.00004	0.00004	0.00005
	RN	**(D * G * SN)**	-0.00007	-0.00007	-0.00007
	RN	**(D * G * SN)**	0.00187	0.00196	0.00233
	SN	**(D * !G * RN)**	0.00182	0.00206	0.00274
	SN	**(D * !G * RN)**	0.00001	0.00003	0.00005
	SN	**(D * !G * RN)**	-0.00004	-0.00003	-0.00001
	SN	**(D * !G * RN)**	0.00161	0.00186	0.00255
	SN	**(D * !G * !RN)**	0.00189	0.00213	0.00280
	SN	**(D * !G * !RN)**	0.00004	0.00005	0.00007
	SN	**(D * !G * !RN)**	-0.00007	-0.00005	-0.00005
	SN	**(D * !G * !RN)**	0.00183	0.00207	0.00275
	SN	**(!D * G * RN)**	0.00193	0.00216	0.00284
	SN	**(!D * G * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * RN)**	0.00186	0.00210	0.00279
	SN	**(!D * G * !RN)**	0.00190	0.00214	0.00282
	SN	**(!D * G * !RN)**	0.00005	0.00006	0.00006
	SN	**(!D * G * !RN)**	-0.00003	-0.00002	-0.00002
	SN	**(!D * G * !RN)**	0.00184	0.00208	0.00277
	SN	**(!D * !G * RN)**	0.00185	0.00208	0.00275
	SN	**(!D * !G * RN)**	0.00002	0.00004	0.00006
	SN	**(!D * !G * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(!D * !G * RN)**	0.00166	0.00191	0.00259
	SN	**(!D * !G * !RN)**	0.00189	0.00213	0.00281
	SN	**(!D * !G * !RN)**	0.00005	0.00006	0.00008
	SN	**(!D * !G * !RN)**	-0.00006	-0.00004	-0.00003
	SN	**(!D * !G * !RN)**	0.00185	0.00209	0.00278

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00005	0.00034	0.00129
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00003
	0.00064	0.00094	0.00189

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00059	0.00091	0.00195
	-0.00004	-0.00004	-0.00004
	0.00004	0.00004	0.00005
	-0.00001	0.00032	0.00135

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00112	0.00145	0.00260
	-0.00001	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00183	0.00215	0.00331

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00186	0.00224	0.00352
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00001
	0.00111	0.00148	0.00277

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	-0.00008	-0.00008	-0.00008
	-0.00000	-0.00000	-0.00000
	0.00000	0.00000	0.00001
	0.00033	0.00034	0.00034

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00021	0.00021	0.00022
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	-0.00000
	-0.00026	-0.00025	-0.00024

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00003	0.00038	0.00156
	0.00002	0.00003	0.00003
	-0.00002	-0.00002	-0.00001
	0.00068	0.00104	0.00222

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7L	0.00084	0.00123	0.00251
	-0.00003	-0.00003	-0.00002
	0.00002	0.00002	0.00002
	0.00017	0.00056	0.00184

LATHSRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX1H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX1H7L	0.00075	0.00098	0.00081	0.00084	0.07434	0.07514

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX1H7L	0.00000	5.90499	7.81567

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7L	D->Q (RR)	-	0.06672	0.21850	0.57137
	G->Q (RR)	(RN * SN)	0.08499	0.22669	0.54448
	RN->Q (RR)	(D * G * SN)	0.07061	0.21903	0.56595
	SN->Q (FR)	(D * !G * RN)	0.05257	0.19813	0.55511
	SN->Q (FR)	(D * !G * !RN)	0.05391	0.20153	0.56137
	SN->Q (FR)	(!D * G * RN)	0.05453	0.20184	0.56111
	SN->Q (FR)	(!D * G * !RN)	0.05591	0.20297	0.56215
	SN->Q (FR)	(!D * !G * RN)	0.05267	0.19851	0.55592
	SN->Q (FR)	(!D * !G * !RN)	0.05503	0.20241	0.56270

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7L	D->Q (FF)	-	0.08097	0.22819	0.55956
	G->Q (RF)	(RN * SN)	0.08160	0.20095	0.44054
	RN->Q (FF)	(D * G * SN)	0.08996	0.24269	0.59188
	RN->Q (FF)	(D * !G * SN)	0.08831	0.23438	0.56355
	RN->Q (FF)	(!D * !G * SN)	0.08150	0.22719	0.55406
	SN->Q (RF)	(!D * G * RN)	0.09818	0.20870	0.43172
	SN->Q (RF)	(!D * G * !RN)	0.08026	0.18274	0.40107

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7L	D->QN (FR)	-	0.11979	0.27552	0.66846
	G->QN (RR)	(RN * SN)	0.12080	0.24923	0.56656
	RN->QN (FR)	(D * G * SN)	0.12899	0.29046	0.70081
	RN->QN (FR)	(D * !G * SN)	0.12646	0.28657	0.69246
	RN->QN (FR)	(!D * !G * SN)	0.11933	0.27904	0.68271
	SN->QN (RR)	(!D * G * RN)	0.13704	0.25700	0.55827
	SN->QN (RR)	(!D * G * !RN)	0.11299	0.23463	0.53907

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7L	D->QN (RF)	-	0.09765	0.20321	0.44859
	G->QN (RF)	(RN * SN)	0.11616	0.21241	0.43265
	RN->QN (RF)	(D * G * SN)	0.10162	0.20371	0.44219
	SN->QN (FF)	(D * !G * RN)	0.07832	0.18792	0.45246
	SN->QN (FF)	(D * !G * !RN)	0.07983	0.19000	0.45530
	SN->QN (FF)	(!D * G * RN)	0.08090	0.19080	0.45620
	SN->QN (FF)	(!D * G * !RN)	0.08138	0.19113	0.45657
	SN->QN (FF)	(!D * !G * RN)	0.07858	0.18835	0.45303
	SN->QN (FF)	(!D * !G * !RN)	0.08103	0.19118	0.45687

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7L	hold	G (F)	-0.07039	-0.00761	0.07536
	setup	G (F)	-0.03390	0.03091	0.10512

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7L	hold	G (F)	-0.14352	-0.05032	0.01702
	setup	G (F)	0.03107	0.10235	0.21996

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX1H7L	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7L	recovery	G (F)	-0.03889	0.03047	0.10028
	removal	G (F)	-0.06791	-0.00837	0.07536

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7L	recovery	G (F)	0.04877	0.08559	0.10828
	removal	G (F)	-0.06762	-0.04142	-0.00297
	hold	RN (R)	-0.25610	-0.13696	-0.07927
	setup	RN (R)	0.11100	0.19113	0.41953

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7L	**D**	**-**	0.00143	0.00159	0.00220
	D	**-**	0.00002	0.00004	0.00005
	D	**-**	-0.00004	-0.00004	-0.00002
	D	**-**	0.00180	0.00195	0.00256
	G	**(RN * SN)**	0.00201	0.00220	0.00284
	G	**(RN * SN)**	0.00000	0.00002	0.00003
	G	**(RN * SN)**	-0.00003	-0.00002	-0.00001
	G	**(RN * SN)**	0.00246	0.00265	0.00329
	RN	**(D * G * SN)**	0.00144	0.00153	0.00193
	RN	**(D * G * SN)**	0.00002	0.00004	0.00005
	RN	**(D * G * SN)**	-0.00007	-0.00007	-0.00006
	RN	**(D * G * SN)**	0.00194	0.00203	0.00243
	SN	**(D * !G * RN)**	0.00188	0.00213	0.00280
	SN	**(D * !G * RN)**	0.00000	0.00003	0.00006
	SN	**(D * !G * RN)**	-0.00004	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00168	0.00193	0.00260
	SN	**(D * !G * !RN)**	0.00194	0.00220	0.00288
	SN	**(D * !G * !RN)**	0.00003	0.00005	0.00008
	SN	**(D * !G * !RN)**	-0.00008	-0.00005	-0.00005
	SN	**(D * !G * !RN)**	0.00190	0.00215	0.00284
	SN	**(!D * G * RN)**	0.00201	0.00224	0.00292
	SN	**(!D * G * RN)**	0.00003	0.00006	0.00006
	SN	**(!D * G * RN)**	-0.00004	-0.00003	-0.00002
	SN	**(!D * G * RN)**	0.00192	0.00217	0.00288
	SN	**(!D * G * !RN)**	0.00195	0.00221	0.00289
	SN	**(!D * G * !RN)**	0.00003	0.00006	0.00009
	SN	**(!D * G * !RN)**	-0.00002	-0.00002	-0.00001
	SN	**(!D * G * !RN)**	0.00191	0.00215	0.00284
	SN	**(!D * !G * RN)**	0.00189	0.00215	0.00283
	SN	**(!D * !G * RN)**	0.00001	0.00004	0.00006
	SN	**(!D * !G * RN)**	-0.00004	-0.00003	-0.00003
	SN	**(!D * !G * RN)**	0.00172	0.00198	0.00268
	SN	**(!D * !G * !RN)**	0.00197	0.00220	0.00290
	SN	**(!D * !G * !RN)**	0.00004	0.00006	0.00009
	SN	**(!D * !G * !RN)**	-0.00006	-0.00004	-0.00002
	SN	**(!D * !G * !RN)**	0.00190	0.00216	0.00288

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7L	D	-	0.00185	0.00201	0.00277
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00002	0.00004	0.00006
	D	-	0.00146	0.00165	0.00240
	G	(RN * SN)	0.00207	0.00225	0.00290
	G	(RN * SN)	-0.00003	-0.00002	-0.00000
	G	(RN * SN)	0.00001	0.00002	0.00004
	G	(RN * SN)	0.00236	0.00254	0.00319
	RN	(D * G * SN)	0.00207	0.00222	0.00292
	RN	(D * G * SN)	-0.00005	-0.00004	-0.00002
	RN	(D * G * SN)	0.00006	0.00007	0.00008
	RN	(D * G * SN)	0.00158	0.00172	0.00243
	RN	(D * !G * SN)	0.00196	0.00209	0.00272
	RN	(D * !G * SN)	-0.00004	-0.00003	-0.00002
	RN	(D * !G * SN)	0.00006	0.00006	0.00007
	RN	(D * !G * SN)	0.00155	0.00168	0.00232
	RN	(!D * !G * SN)	0.00187	0.00200	0.00265
	RN	(!D * !G * SN)	-0.00004	-0.00003	-0.00002
	RN	(!D * !G * SN)	0.00003	0.00004	0.00007
	RN	(!D * !G * SN)	0.00150	0.00165	0.00230
	SN	(!D * G * RN)	0.00199	0.00218	0.00279
	SN	(!D * G * RN)	-0.00006	-0.00006	-0.00003
	SN	(!D * G * RN)	0.00002	0.00003	0.00004
	SN	(!D * G * RN)	0.00205	0.00223	0.00285
	SN	(!D * G * !RN)	0.00201	0.00220	0.00280
	SN	(!D * G * !RN)	-0.00008	-0.00006	-0.00003
	SN	(!D * G * !RN)	0.00001	0.00003	0.00005
	SN	(!D * G * !RN)	0.00204	0.00224	0.00285

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7L	D	-	0.00185	0.00202	0.00277
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00002	0.00004	0.00005
	D	-	0.00149	0.00165	0.00241
	G	(RN * SN)	0.00206	0.00225	0.00291
	G	(RN * SN)	-0.00002	-0.00001	-0.00000
	G	(RN * SN)	0.00002	0.00002	0.00004
	G	(RN * SN)	0.00236	0.00254	0.00320
	RN	(D * G * SN)	0.00207	0.00222	0.00293
	RN	(D * G * SN)	-0.00004	-0.00004	-0.00002
	RN	(D * G * SN)	0.00007	0.00007	0.00009
	RN	(D * G * SN)	0.00158	0.00172	0.00243
	RN	(D * !G * SN)	0.00196	0.00209	0.00272
	RN	(D * !G * SN)	-0.00003	-0.00003	-0.00001
	RN	(D * !G * SN)	0.00006	0.00006	0.00006
	RN	(D * !G * SN)	0.00155	0.00168	0.00232
	RN	(!D * !G * SN)	0.00187	0.00200	0.00265
	RN	(!D * !G * SN)	-0.00004	-0.00003	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00004	0.00007
	RN	(!D * !G * SN)	0.00150	0.00165	0.00230
	SN	(!D * G * RN)	0.00200	0.00218	0.00280
	SN	(!D * G * RN)	-0.00007	-0.00006	-0.00004
	SN	(!D * G * RN)	0.00003	0.00003	0.00003
	SN	(!D * G * RN)	0.00205	0.00223	0.00285
	SN	(!D * G * !RN)	0.00201	0.00220	0.00281
	SN	(!D * G * !RN)	-0.00006	-0.00006	-0.00005
	SN	(!D * G * !RN)	0.00003	0.00003	0.00003
	SN	(!D * G * !RN)	0.00205	0.00224	0.00286

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7L	**D**	**-**	0.00143	0.00158	0.00219
	D	**-**	0.00003	0.00004	0.00005
	D	**-**	-0.00005	-0.00004	-0.00002
	D	**-**	0.00180	0.00195	0.00256
	G	**(RN * SN)**	0.00201	0.00220	0.00284
	G	**(RN * SN)**	0.00000	0.00002	0.00002
	G	**(RN * SN)**	-0.00003	-0.00002	-0.00002
	G	**(RN * SN)**	0.00245	0.00265	0.00329
	RN	**(D * G * SN)**	0.00144	0.00153	0.00193
	RN	**(D * G * SN)**	0.00002	0.00004	0.00004
	RN	**(D * G * SN)**	-0.00007	-0.00007	-0.00007
	RN	**(D * G * SN)**	0.00194	0.00203	0.00243
	SN	**(D * !G * RN)**	0.00187	0.00213	0.00281
	SN	**(D * !G * RN)**	0.00001	0.00003	0.00005
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00001
	SN	**(D * !G * RN)**	0.00167	0.00193	0.00262
	SN	**(D * !G * !RN)**	0.00195	0.00220	0.00287
	SN	**(D * !G * !RN)**	0.00003	0.00005	0.00005
	SN	**(D * !G * !RN)**	-0.00008	-0.00005	-0.00004
	SN	**(D * !G * !RN)**	0.00190	0.00214	0.00282
	SN	**(!D * G * RN)**	0.00198	0.00223	0.00290
	SN	**(!D * G * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * RN)**	0.00192	0.00217	0.00284
	SN	**(!D * G * !RN)**	0.00197	0.00221	0.00289
	SN	**(!D * G * !RN)**	0.00005	0.00006	0.00006
	SN	**(!D * G * !RN)**	-0.00003	-0.00002	-0.00002
	SN	**(!D * G * !RN)**	0.00191	0.00214	0.00283
	SN	**(!D * !G * RN)**	0.00190	0.00215	0.00282
	SN	**(!D * !G * RN)**	0.00002	0.00004	0.00006
	SN	**(!D * !G * RN)**	-0.00004	-0.00003	-0.00000
	SN	**(!D * !G * RN)**	0.00172	0.00198	0.00267
	SN	**(!D * !G * !RN)**	0.00196	0.00220	0.00287
	SN	**(!D * !G * !RN)**	0.00006	0.00006	0.00007
	SN	**(!D * !G * !RN)**	-0.00004	-0.00004	-0.00004
	SN	**(!D * !G * !RN)**	0.00191	0.00215	0.00284

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00005	0.00034	0.00129
	0.00003	0.00004	0.00004
	-0.00004	-0.00004	-0.00003
	0.00064	0.00093	0.00188

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00059	0.00091	0.00195
	-0.00004	-0.00004	-0.00003
	0.00003	0.00004	0.00004
	-0.00001	0.00032	0.00135

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00112	0.00145	0.00260
	-0.00000	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00183	0.00215	0.00331

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00186	0.00224	0.00352
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00001
	0.00111	0.00148	0.00277

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	-0.00008	-0.00008	-0.00007
	-0.00001	-0.00000	-0.00000
	0.00000	0.00000	0.00001
	0.00033	0.00034	0.00034

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00021	0.00021	0.00022
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	-0.00000
	-0.00027	-0.00026	-0.00025

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00003	0.00038	0.00156
	0.00002	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	0.00068	0.00104	0.00222

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7L	0.00084	0.00123	0.00251
	-0.00003	-0.00003	-0.00002
	0.00002	0.00002	0.00002
	0.00018	0.00057	0.00184

LATHSRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX2H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX2H7L	0.00083	0.00099	0.00085	0.00086	0.08586	0.08588

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX2H7L	0.00000	6.09698	8.38930

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7L	D->Q (RR)	-	0.06017	0.20910	0.55778
	G->Q (RR)	-	0.07815	0.21879	0.53626
	RN->Q (RR)	(D * G)	0.06348	0.20886	0.54935
	SN->Q (FR)	(D * G * !RN)	0.05700	0.20752	0.56956
	SN->Q (FR)	(D * !G * RN)	0.05304	0.19947	0.55778
	SN->Q (FR)	(D * !G * !RN)	0.05453	0.20316	0.56443
	SN->Q (FR)	(!D * G * RN)	0.05590	0.20433	0.56478
	SN->Q (FR)	(!D * G * !RN)	0.05724	0.20539	0.56604
	SN->Q (FR)	(!D * !G * RN)	0.05321	0.19994	0.55866
	SN->Q (FR)	(!D * !G * !RN)	0.05587	0.20424	0.56518

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7L	D->Q (FF)	-	0.07327	0.21716	0.54343
	G->Q (RF)	-	0.07534	0.19325	0.43288
	RN->Q (FF)	(D * G)	0.08752	0.24182	0.59547
	RN->Q (FF)	(D * !G)	0.08505	0.23193	0.56386
	RN->Q (FF)	(!D * !G)	0.07811	0.22437	0.55362
	SN->Q (RF)	(D * G * !RN)	0.10331	0.21393	0.43662
	SN->Q (RF)	(D * !G * !RN)	0.10096	0.20617	0.42333
	SN->Q (RF)	(!D * G * RN)	0.09002	0.19883	0.42088
	SN->Q (RF)	(!D * G * !RN)	0.07513	0.17719	0.39587
	SN->Q (RF)	(!D * !G * !RN)	0.10017	0.20603	0.42423

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7L	D->QN (FR)	-	0.11171	0.26564	0.65267
	G->QN (RR)	-	0.11412	0.24264	0.55852
	RN->QN (FR)	(D * G)	0.12768	0.28961	0.70079
	RN->QN (FR)	(D * !G)	0.12406	0.28427	0.69004
	RN->QN (FR)	(!D * !G)	0.11677	0.27636	0.67891
	SN->QN (RR)	(D * G * !RN)	0.14350	0.26281	0.56120
	SN->QN (RR)	(D * !G * !RN)	0.14009	0.25888	0.55717
	SN->QN (RR)	(!D * G * RN)	0.12850	0.24821	0.54715
	SN->QN (RR)	(!D * G * !RN)	0.10801	0.22928	0.53108
	SN->QN (RR)	(!D * !G * !RN)	0.13893	0.25842	0.55746

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7L	D->QN (RF)	-	0.09147	0.19559	0.43640
	G->QN (RF)	-	0.10964	0.20619	0.42613
	RN->QN (RF)	(D * G)	0.09486	0.19531	0.42793
	SN->QN (FF)	(D * G * !RN)	0.08658	0.19739	0.46339
	SN->QN (FF)	(D * !G * RN)	0.08000	0.18986	0.45419
	SN->QN (FF)	(D * !G * !RN)	0.08162	0.19209	0.45726
	SN->QN (FF)	(!D * G * RN)	0.08364	0.19387	0.45930
	SN->QN (FF)	(!D * G * !RN)	0.08410	0.19416	0.45951
	SN->QN (FF)	(!D * !G * RN)	0.08037	0.19039	0.45515
	SN->QN (FF)	(!D * !G * !RN)	0.08315	0.19358	0.45931

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7L	hold	G (F)	-0.06137	-0.00041	0.08025
	setup	G (F)	-0.04548	0.02307	0.09578

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7L	hold	G (F)	-0.13477	-0.04306	0.02438
	setup	G (F)	0.02057	0.09349	0.20697

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX2H7L	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7L	hold	G (F)	-0.05774	-0.00034	0.08404
	setup	G (F)	-0.04734	0.02201	0.09003

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX2H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7L	hold	G (F)	-0.06211	-0.03590	0.00661
	setup	G (F)	0.03877	0.07827	0.10260
	hold	RN (R)	-0.25837	-0.13611	-0.07591
	setup	RN (R)	0.11013	0.18974	0.41965

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7L	**D**	**-**	0.00149	0.00167	0.00235
	D	**-**	0.00003	0.00004	0.00006
	D	**-**	-0.00006	-0.00005	-0.00003
	D	**-**	0.00189	0.00207	0.00275
	G	**-**	0.00211	0.00231	0.00299
	G	**-**	0.00000	0.00002	0.00003
	G	**-**	-0.00004	-0.00003	-0.00002
	G	**-**	0.00256	0.00276	0.00344
	RN	**(D * G)**	0.00150	0.00160	0.00203
	RN	**(D * G)**	0.00003	0.00004	0.00006
	RN	**(D * G)**	-0.00008	-0.00008	-0.00006
	RN	**(D * G)**	0.00205	0.00215	0.00258
	SN	**(D * G * !RN)**	0.00210	0.00236	0.00303
	SN	**(D * G * !RN)**	0.00005	0.00007	0.00010
	SN	**(D * G * !RN)**	-0.00008	-0.00007	-0.00007
	SN	**(D * G * !RN)**	0.00219	0.00243	0.00310
	SN	**(D * !G * RN)**	0.00195	0.00221	0.00288
	SN	**(D * !G * RN)**	0.00000	0.00003	0.00006
	SN	**(D * !G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00176	0.00201	0.00269
	SN	**(D * !G * !RN)**	0.00202	0.00228	0.00297
	SN	**(D * !G * !RN)**	0.00005	0.00006	0.00009
	SN	**(D * !G * !RN)**	-0.00007	-0.00005	-0.00004
	SN	**(D * !G * !RN)**	0.00201	0.00225	0.00294
	SN	**(!D * G * RN)**	0.00206	0.00232	0.00300
	SN	**(!D * G * RN)**	0.00004	0.00007	0.00010
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * G * RN)**	0.00204	0.00229	0.00297
	SN	**(!D * G * !RN)**	0.00204	0.00230	0.00298
	SN	**(!D * G * !RN)**	0.00005	0.00007	0.00010
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00201	0.00226	0.00295
	SN	**(!D * !G * RN)**	0.00196	0.00223	0.00291
	SN	**(!D * !G * RN)**	0.00002	0.00004	0.00007
	SN	**(!D * !G * RN)**	-0.00003	-0.00003	-0.00001
	SN	**(!D * !G * RN)**	0.00181	0.00206	0.00275
	SN	**(!D * !G * !RN)**	0.00203	0.00229	0.00297
	SN	**(!D * !G * !RN)**	0.00007	0.00008	0.00010
	SN	**(!D * !G * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00203	0.00227	0.00295

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7L	**D**	**-**	0.00195	0.00213	0.00297
	D	**-**	-0.00005	-0.00004	-0.00003
	D	**-**	0.00003	0.00005	0.00006
	D	**-**	0.00154	0.00172	0.00256
	G	**-**	0.00216	0.00236	0.00304
	G	**-**	-0.00003	-0.00002	0.00000
	G	**-**	0.00002	0.00003	0.00004
	G	**-**	0.00246	0.00265	0.00332
	RN	**(D * G)**	0.00219	0.00234	0.00312
	RN	**(D * G)**	-0.00005	-0.00004	-0.00003
	RN	**(D * G)**	0.00006	0.00008	0.00008
	RN	**(D * G)**	0.00164	0.00180	0.00258
	RN	**(D * !G)**	0.00204	0.00218	0.00287
	RN	**(D * !G)**	-0.00005	-0.00004	-0.00002
	RN	**(D * !G)**	0.00004	0.00006	0.00008
	RN	**(D * !G)**	0.00160	0.00175	0.00244
	RN	**(!D * !G)**	0.00194	0.00209	0.00279
	RN	**(!D * !G)**	-0.00005	-0.00003	-0.00001
	RN	**(!D * !G)**	0.00003	0.00005	0.00006
	RN	**(!D * !G)**	0.00156	0.00171	0.00243
	SN	**(D * G * !RN)**	0.00233	0.00251	0.00313
	SN	**(D * G * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(D * G * !RN)**	0.00007	0.00007	0.00009
	SN	**(D * G * !RN)**	0.00226	0.00244	0.00306
	SN	**(D * !G * !RN)**	0.00221	0.00239	0.00300
	SN	**(D * !G * !RN)**	-0.00007	-0.00006	-0.00005
	SN	**(D * !G * !RN)**	0.00004	0.00005	0.00007
	SN	**(D * !G * !RN)**	0.00224	0.00242	0.00304
	SN	**(!D * G * RN)**	0.00211	0.00229	0.00290
	SN	**(!D * G * RN)**	-0.00008	-0.00007	-0.00004
	SN	**(!D * G * RN)**	0.00002	0.00004	0.00005
	SN	**(!D * G * RN)**	0.00214	0.00232	0.00293
	SN	**(!D * G * !RN)**	0.00211	0.00232	0.00291
	SN	**(!D * G * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(!D * G * !RN)**	0.00002	0.00003	0.00004
	SN	**(!D * G * !RN)**	0.00214	0.00233	0.00293
	SN	**(!D * !G * !RN)**	0.00229	0.00247	0.00307
	SN	**(!D * !G * !RN)**	-0.00009	-0.00008	-0.00007
	SN	**(!D * !G * !RN)**	0.00004	0.00006	0.00008
	SN	**(!D * !G * !RN)**	0.00224	0.00243	0.00304

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7L	**D**	**-**	0.00194	0.00213	0.00297
	D	**-**	-0.00005	-0.00004	-0.00003
	D	**-**	0.00002	0.00005	0.00005
	D	**-**	0.00154	0.00173	0.00257
	G	**-**	0.00218	0.00237	0.00304
	G	**-**	-0.00003	-0.00002	-0.00002
	G	**-**	0.00001	0.00003	0.00004
	G	**-**	0.00246	0.00265	0.00332
	RN	**(D * G)**	0.00219	0.00235	0.00312
	RN	**(D * G)**	-0.00006	-0.00004	-0.00003
	RN	**(D * G)**	0.00008	0.00008	0.00010
	RN	**(D * G)**	0.00165	0.00180	0.00258
	RN	**(D * !G)**	0.00204	0.00218	0.00287
	RN	**(D * !G)**	-0.00004	-0.00003	-0.00001
	RN	**(D * !G)**	0.00006	0.00006	0.00009
	RN	**(D * !G)**	0.00159	0.00175	0.00244
	RN	**(!D * !G)**	0.00194	0.00209	0.00279
	RN	**(!D * !G)**	-0.00005	-0.00003	-0.00003
	RN	**(!D * !G)**	0.00003	0.00005	0.00005
	RN	**(!D * !G)**	0.00157	0.00171	0.00243
	SN	**(D * G * !RN)**	0.00234	0.00252	0.00314
	SN	**(D * G * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(D * G * !RN)**	0.00007	0.00007	0.00010
	SN	**(D * G * !RN)**	0.00226	0.00244	0.00307
	SN	**(D * !G * !RN)**	0.00221	0.00239	0.00300
	SN	**(D * !G * !RN)**	-0.00007	-0.00006	-0.00004
	SN	**(D * !G * !RN)**	0.00005	0.00006	0.00008
	SN	**(D * !G * !RN)**	0.00224	0.00242	0.00304
	SN	**(!D * G * RN)**	0.00211	0.00229	0.00290
	SN	**(!D * G * RN)**	-0.00008	-0.00007	-0.00005
	SN	**(!D * G * RN)**	0.00002	0.00004	0.00004
	SN	**(!D * G * RN)**	0.00214	0.00232	0.00293
	SN	**(!D * G * !RN)**	0.00213	0.00232	0.00294
	SN	**(!D * G * !RN)**	-0.00008	-0.00007	-0.00006
	SN	**(!D * G * !RN)**	0.00003	0.00003	0.00004
	SN	**(!D * G * !RN)**	0.00214	0.00233	0.00294
	SN	**(!D * !G * !RN)**	0.00229	0.00247	0.00307
	SN	**(!D * !G * !RN)**	-0.00009	-0.00007	-0.00006
	SN	**(!D * !G * !RN)**	0.00006	0.00006	0.00009
	SN	**(!D * !G * !RN)**	0.00224	0.00243	0.00304

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7L	**D**	**-**	0.00149	0.00166	0.00234
	D	**-**	0.00003	0.00004	0.00006
	D	**-**	-0.00005	-0.00005	-0.00002
	D	**-**	0.00190	0.00207	0.00275
	G	**-**	0.00210	0.00231	0.00299
	G	**-**	0.00002	0.00002	0.00003
	G	**-**	-0.00004	-0.00003	-0.00001
	G	**-**	0.00256	0.00276	0.00345
	RN	**(D * G)**	0.00150	0.00160	0.00203
	RN	**(D * G)**	0.00003	0.00004	0.00006
	RN	**(D * G)**	-0.00008	-0.00008	-0.00007
	RN	**(D * G)**	0.00204	0.00215	0.00258
	SN	**(D * G * !RN)**	0.00210	0.00236	0.00303
	SN	**(D * G * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * G * !RN)**	-0.00009	-0.00007	-0.00006
	SN	**(D * G * !RN)**	0.00217	0.00242	0.00311
	SN	**(D * !G * RN)**	0.00195	0.00221	0.00289
	SN	**(D * !G * RN)**	0.00003	0.00003	0.00005
	SN	**(D * !G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00176	0.00200	0.00271
	SN	**(D * !G * !RN)**	0.00202	0.00228	0.00296
	SN	**(D * !G * !RN)**	0.00004	0.00006	0.00008
	SN	**(D * !G * !RN)**	-0.00006	-0.00005	-0.00003
	SN	**(D * !G * !RN)**	0.00200	0.00224	0.00294
	SN	**(!D * G * RN)**	0.00206	0.00232	0.00300
	SN	**(!D * G * RN)**	0.00005	0.00007	0.00009
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * G * RN)**	0.00203	0.00228	0.00297
	SN	**(!D * G * !RN)**	0.00206	0.00230	0.00297
	SN	**(!D * G * !RN)**	0.00006	0.00007	0.00008
	SN	**(!D * G * !RN)**	-0.00004	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00201	0.00226	0.00294
	SN	**(!D * !G * RN)**	0.00196	0.00223	0.00291
	SN	**(!D * !G * RN)**	0.00002	0.00004	0.00006
	SN	**(!D * !G * RN)**	-0.00005	-0.00003	-0.00003
	SN	**(!D * !G * RN)**	0.00181	0.00206	0.00277
	SN	**(!D * !G * !RN)**	0.00203	0.00229	0.00296
	SN	**(!D * !G * !RN)**	0.00006	0.00008	0.00010
	SN	**(!D * !G * !RN)**	-0.00006	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00202	0.00226	0.00295

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(G * RN * !SN)	-0.00003	-0.00003	-0.00002
	(G * RN * !SN)	-0.00001	-0.00001	-0.00001
	(G * RN * !SN)	0.00000	0.00000	0.00001
	(G * RN * !SN)	0.00035	0.00035	0.00035
	(G * !RN * SN)	-0.00027	-0.00027	-0.00026
	(G * !RN * SN)	-0.00001	-0.00000	0.00000
	(G * !RN * SN)	0.00002	0.00002	0.00003
	(G * !RN * SN)	0.00010	0.00010	0.00010
	(G * !RN * !SN)	-0.00003	-0.00003	-0.00003
	(G * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(G * !RN * !SN)	0.00000	0.00001	0.00001
	(G * !RN * !SN)	0.00033	0.00033	0.00034
	(!G * RN * SN)	0.00004	0.00038	0.00148
	(!G * RN * SN)	0.00005	0.00005	0.00005
	(!G * RN * SN)	-0.00005	-0.00005	-0.00004
	(!G * RN * SN)	0.00071	0.00105	0.00215
	(!G * RN * !SN)	-0.00006	-0.00006	-0.00005
	(!G * RN * !SN)	-0.00002	-0.00001	-0.00001
	(!G * RN * !SN)	0.00000	0.00001	0.00001
	(!G * RN * !SN)	0.00031	0.00031	0.00031
	(!G * !RN * SN)	-0.00027	-0.00025	-0.00023
	(!G * !RN * SN)	0.00000	0.00000	0.00000
	(!G * !RN * SN)	0.00002	0.00002	0.00003
	(!G * !RN * SN)	0.00008	0.00009	0.00009
	(!G * !RN * !SN)	-0.00006	-0.00006	-0.00006
	(!G * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(!G * !RN * !SN)	0.00001	0.00001	0.00001
	(!G * !RN * !SN)	0.00029	0.00030	0.00030

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(G * RN * !SN)	0.00003	0.00003	0.00004
	(G * RN * !SN)	0.00001	0.00002	0.00002
	(G * RN * !SN)	-0.00000	-0.00000	-0.00000
	(G * RN * !SN)	-0.00034	-0.00034	-0.00034
	(G * !RN * SN)	0.00027	0.00028	0.00028
	(G * !RN * SN)	0.00000	0.00000	0.00001
	(G * !RN * SN)	-0.00002	-0.00001	-0.00001
	(G * !RN * SN)	-0.00010	-0.00010	-0.00010
	(G * !RN * !SN)	0.00004	0.00004	0.00005
	(G * !RN * !SN)	0.00001	0.00001	0.00002
	(G * !RN * !SN)	-0.00001	-0.00001	-0.00000
	(G * !RN * !SN)	-0.00033	-0.00031	-0.00028
	(!G * RN * SN)	0.00066	0.00103	0.00223
	(!G * RN * SN)	-0.00005	-0.00005	-0.00005
	(!G * RN * SN)	0.00005	0.00005	0.00005
	(!G * RN * SN)	-0.00001	0.00036	0.00156
	(!G * RN * !SN)	0.00007	0.00007	0.00008
	(!G * RN * !SN)	0.00002	0.00002	0.00002
	(!G * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!G * RN * !SN)	-0.00029	-0.00028	-0.00027
	(!G * !RN * SN)	0.00037	0.00038	0.00038
	(!G * !RN * SN)	0.00000	0.00000	0.00000
	(!G * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!G * !RN * SN)	-0.00004	-0.00004	-0.00004
	(!G * !RN * !SN)	0.00007	0.00007	0.00008
	(!G * !RN * !SN)	0.00001	0.00002	0.00002
	(!G * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!G * !RN * !SN)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for G rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7L	**(D * RN * SN)**	0.00117	0.00150	0.00269
	(D * RN * SN)	-0.00001	-0.00001	0.00000
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	0.00190	0.00223	0.00341
	(D * RN * !SN)	0.00122	0.00155	0.00272
	(D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(D * RN * !SN)	0.00000	0.00001	0.00002
	(D * RN * !SN)	0.00191	0.00224	0.00343
	(D * !RN * SN)	0.00112	0.00146	0.00267
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00000	-0.00000	0.00000
	(D * !RN * SN)	0.00186	0.00220	0.00340
	(D * !RN * !SN)	0.00121	0.00154	0.00273
	(D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * !SN)	0.00000	0.00001	0.00002
	(D * !RN * !SN)	0.00191	0.00225	0.00343
	(!D * RN * SN)	0.00112	0.00146	0.00265
	(!D * RN * SN)	-0.00000	0.00000	0.00001
	(!D * RN * SN)	-0.00000	-0.00000	0.00000
	(!D * RN * SN)	0.00185	0.00219	0.00339
	(!D * RN * !SN)	0.00121	0.00154	0.00273
	(!D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * RN * !SN)	0.00000	0.00001	0.00001
	(!D * RN * !SN)	0.00190	0.00224	0.00343
	(!D * !RN * SN)	0.00112	0.00146	0.00265
	(!D * !RN * SN)	-0.00001	-0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00000	0.00001
	(!D * !RN * SN)	0.00186	0.00220	0.00340
	(!D * !RN * !SN)	0.00121	0.00155	0.00273
	(!D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(!D * !RN * !SN)	0.00000	0.00000	0.00000
	(!D * !RN * !SN)	0.00193	0.00226	0.00344

Passive power(pJ) for G falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7L	**(D * RN * SN)**	0.00187	0.00226	0.00358
	(D * RN * SN)	-0.00000	0.00001	0.00002
	(D * RN * SN)	-0.00001	-0.00000	0.00000
	(D * RN * SN)	0.00116	0.00154	0.00286
	(D * RN * !SN)	0.00185	0.00222	0.00353
	(D * RN * !SN)	0.00001	0.00002	0.00002
	(D * RN * !SN)	-0.00001	-0.00000	-0.00000
	(D * RN * !SN)	0.00115	0.00152	0.00283
	(D * !RN * SN)	0.00192	0.00230	0.00362
	(D * !RN * SN)	0.00000	0.00000	0.00000
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	0.00118	0.00156	0.00287
	(D * !RN * !SN)	0.00184	0.00222	0.00354
	(D * !RN * !SN)	0.00001	0.00001	0.00002
	(D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(D * !RN * !SN)	0.00113	0.00152	0.00284
	(!D * RN * SN)	0.00191	0.00230	0.00362
	(!D * RN * SN)	-0.00001	0.00000	0.00001
	(!D * RN * SN)	0.00000	0.00000	0.00001
	(!D * RN * SN)	0.00118	0.00156	0.00288
	(!D * RN * !SN)	0.00185	0.00223	0.00354
	(!D * RN * !SN)	0.00001	0.00002	0.00002
	(!D * RN * !SN)	-0.00001	-0.00001	0.00000
	(!D * RN * !SN)	0.00117	0.00154	0.00284
	(!D * !RN * SN)	0.00192	0.00229	0.00361
	(!D * !RN * SN)	-0.00001	0.00000	0.00001
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	0.00117	0.00155	0.00287
	(!D * !RN * !SN)	0.00185	0.00222	0.00353
	(!D * !RN * !SN)	0.00001	0.00002	0.00002
	(!D * !RN * !SN)	-0.00000	0.00000	0.00000
	(!D * !RN * !SN)	0.00115	0.00152	0.00282

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(D * G * !SN)	-0.00009	-0.00009	-0.00008
	(D * G * !SN)	-0.00001	-0.00001	-0.00001
	(D * G * !SN)	0.00000	0.00000	0.00000
	(D * G * !SN)	0.00035	0.00035	0.00035
	(D * !G * SN)	-0.00020	-0.00020	-0.00020
	(D * !G * SN)	-0.00000	-0.00000	0.00000
	(D * !G * SN)	0.00000	0.00000	0.00001
	(D * !G * SN)	0.00030	0.00030	0.00030
	(D * !G * !SN)	-0.00008	-0.00008	-0.00008
	(D * !G * !SN)	-0.00001	-0.00001	-0.00001
	(D * !G * !SN)	0.00000	0.00000	0.00001
	(D * !G * !SN)	0.00035	0.00036	0.00036
	(!D * G * SN)	-0.00020	-0.00020	-0.00020
	(!D * G * SN)	-0.00000	-0.00000	-0.00000
	(!D * G * SN)	0.00000	0.00000	0.00001
	(!D * G * SN)	0.00030	0.00030	0.00030
	(!D * G * !SN)	-0.00010	-0.00009	-0.00009
	(!D * G * !SN)	-0.00001	-0.00001	-0.00001
	(!D * G * !SN)	0.00001	0.00001	0.00002
	(!D * G * !SN)	0.00033	0.00033	0.00034
	(!D * !G * SN)	-0.00020	-0.00020	-0.00019
	(!D * !G * SN)	-0.00000	-0.00000	0.00000
	(!D * !G * SN)	0.00000	0.00000	0.00001
	(!D * !G * SN)	0.00030	0.00030	0.00031
	(!D * !G * !SN)	-0.00009	-0.00008	-0.00008
	(!D * !G * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !G * !SN)	0.00000	0.00000	0.00001
	(!D * !G * !SN)	0.00035	0.00036	0.00036

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(D * G * !SN)	0.00010	0.00010	0.00010
	(D * G * !SN)	0.00001	0.00001	0.00001
	(D * G * !SN)	-0.00000	-0.00000	0.00000
	(D * G * !SN)	-0.00035	-0.00034	-0.00034
	(D * !G * SN)	0.00021	0.00022	0.00022
	(D * !G * SN)	0.00000	0.00000	0.00000
	(D * !G * SN)	-0.00001	-0.00000	0.00000
	(D * !G * SN)	-0.00028	-0.00026	-0.00024
	(D * !G * !SN)	0.00008	0.00009	0.00009
	(D * !G * !SN)	0.00001	0.00001	0.00002
	(D * !G * !SN)	-0.00001	-0.00000	-0.00000
	(D * !G * !SN)	-0.00035	-0.00035	-0.00034
	(!D * G * SN)	0.00021	0.00021	0.00023
	(!D * G * SN)	0.00000	0.00000	0.00001
	(!D * G * SN)	-0.00000	-0.00000	0.00000
	(!D * G * SN)	-0.00028	-0.00028	-0.00027
	(!D * G * !SN)	0.00010	0.00010	0.00011
	(!D * G * !SN)	0.00001	0.00001	0.00002
	(!D * G * !SN)	-0.00002	-0.00001	-0.00001
	(!D * G * !SN)	-0.00033	-0.00032	-0.00029
	(!D * !G * SN)	0.00021	0.00022	0.00023
	(!D * !G * SN)	0.00000	0.00000	0.00001
	(!D * !G * SN)	-0.00000	-0.00000	-0.00000
	(!D * !G * SN)	-0.00028	-0.00027	-0.00026
	(!D * !G * !SN)	0.00009	0.00009	0.00009
	(!D * !G * !SN)	0.00000	0.00001	0.00001
	(!D * !G * !SN)	-0.00001	-0.00000	0.00000
	(!D * !G * !SN)	-0.00035	-0.00035	-0.00035

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(D * G * RN)	0.00005	0.00040	0.00157
	(D * G * RN)	0.00003	0.00003	0.00003
	(D * G * RN)	-0.00002	-0.00002	-0.00002
	(D * G * RN)	0.00072	0.00107	0.00224
	(D * !G * RN)	0.00005	0.00040	0.00157
	(D * !G * RN)	0.00003	0.00003	0.00003
	(D * !G * RN)	-0.00002	-0.00002	-0.00001
	(D * !G * RN)	0.00072	0.00107	0.00224
	(!D * !G * RN)	0.00005	0.00040	0.00157
	(!D * !G * RN)	0.00002	0.00003	0.00003
	(!D * !G * RN)	-0.00002	-0.00002	-0.00001
	(!D * !G * RN)	0.00072	0.00107	0.00224

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7L	(D * G * RN)	0.00086	0.00124	0.00251
	(D * G * RN)	-0.00003	-0.00003	-0.00003
	(D * G * RN)	0.00002	0.00002	0.00002
	(D * G * RN)	0.00017	0.00056	0.00182
	(D * !G * RN)	0.00086	0.00125	0.00251
	(D * !G * RN)	-0.00003	-0.00003	-0.00003
	(D * !G * RN)	0.00002	0.00002	0.00002
	(D * !G * RN)	0.00017	0.00056	0.00183
	(!D * !G * RN)	0.00087	0.00125	0.00251
	(!D * !G * RN)	-0.00003	-0.00003	-0.00002
	(!D * !G * RN)	0.00002	0.00002	0.00002
	(!D * !G * RN)	0.00017	0.00056	0.00183

LATHSX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX0P5H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX0P5H7L	0.00115	0.00084	0.00091	0.06295	0.06295

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX0P5H7L	0.00000	5.95720	7.42555

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7L	D->Q (RR)	-	0.05114	0.19264	0.53066
	G->Q (RR)	SN	0.06706	0.19974	0.51028
	SN->Q (FR)	-	0.05644	0.20373	0.56368

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7L	D->Q (FF)	-	0.07850	0.21795	0.53982
	G->Q (RF)	SN	0.06993	0.18177	0.41319
	SN->Q (RF)	-	0.08938	0.19581	0.41626

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7L	D->QN (FR)	-	0.11248	0.26555	0.65219
	G->QN (RR)	SN	0.10480	0.23102	0.54310
	SN->QN (RR)	-	0.12337	0.24434	0.54577

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7L	D->QN (RF)	-	0.07580	0.17725	0.40976
	G->QN (RF)	SN	0.09168	0.18513	0.39935
	SN->QN (FF)	-	0.07985	0.19005	0.45398

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7L	hold	G (F)	-0.04613	0.00409	0.07770
	setup	G (F)	-0.04233	0.01550	0.07380

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7L	hold	G (F)	-0.14698	-0.05329	0.01592
	setup	G (F)	0.03156	0.09769	0.20852

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX0P5H7L	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7L	recovery	G (F)	0.03815	0.07744	0.10498
	removal	G (F)	-0.06940	-0.04076	0.00401

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7L	D	-	0.00128	0.00144	0.00204
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00175	0.00192	0.00252
	G	SN	0.00176	0.00196	0.00262
	G	SN	0.00000	0.00001	0.00002
	G	SN	-0.00003	-0.00002	-0.00001
	G	SN	0.00207	0.00228	0.00294
	SN	-	0.00186	0.00208	0.00274
	SN	-	0.00005	0.00005	0.00007
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00175	0.00197	0.00265

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7L	D	-	0.00178	0.00195	0.00270
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00004	0.00005
	D	-	0.00130	0.00148	0.00222
	G	SN	0.00177	0.00196	0.00263
	G	SN	-0.00002	-0.00001	-0.00000
	G	SN	0.00001	0.00002	0.00003
	G	SN	0.00202	0.00221	0.00289
	SN	-	0.00185	0.00203	0.00262
	SN	-	-0.00005	-0.00005	-0.00005
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00196	0.00213	0.00273

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7L	D	-	0.00178	0.00196	0.00270
	D	-	-0.00003	-0.00003	-0.00002
	D	-	0.00004	0.00004	0.00004
	D	-	0.00131	0.00148	0.00222
	G	SN	0.00177	0.00196	0.00263
	G	SN	-0.00001	-0.00001	-0.00000
	G	SN	0.00000	0.00002	0.00002
	G	SN	0.00202	0.00221	0.00289
	SN	-	0.00186	0.00203	0.00262
	SN	-	-0.00006	-0.00005	-0.00004
	SN	-	0.00001	0.00003	0.00005
	SN	-	0.00196	0.00213	0.00273

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7L	D	-	0.00128	0.00144	0.00205
	D	-	0.00002	0.00003	0.00003
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00175	0.00191	0.00252
	G	SN	0.00175	0.00196	0.00262
	G	SN	0.00000	0.00001	0.00002
	G	SN	-0.00002	-0.00002	-0.00000
	G	SN	0.00207	0.00228	0.00293
	SN	-	0.00187	0.00208	0.00273
	SN	-	0.00004	0.00005	0.00006
	SN	-	-0.00005	-0.00003	-0.00001
	SN	-	0.00176	0.00197	0.00263

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00010	0.00040	0.00144
	0.00005	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00101	0.00131	0.00236

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00081	0.00115	0.00227
	-0.00005	-0.00005	-0.00005
	0.00003	0.00004	0.00004
	-0.00010	0.00024	0.00136

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00088	0.00123	0.00244
	-0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00146	0.00181	0.00302

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00166	0.00205	0.00337
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00113	0.00151	0.00282

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00015	0.00048	0.00161
	0.00003	0.00004	0.00004
	-0.00002	-0.00002	-0.00001
	0.00091	0.00125	0.00238

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7L	0.00097	0.00133	0.00255
	-0.00004	-0.00004	-0.00003
	0.00002	0.00002	0.00002
	0.00021	0.00057	0.00179

LATHSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX1H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX1H7L	0.00115	0.00085	0.00091	0.07463	0.07452

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX1H7L	0.00000	6.14289	7.61126

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7L	D->Q (RR)	-	0.05032	0.19288	0.53241
	G->Q (RR)	SN	0.06617	0.19968	0.51114
	SN->Q (FR)	-	0.05547	0.20347	0.56405

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7L	D->Q (FF)	-	0.07810	0.21935	0.54370
	G->Q (RF)	SN	0.06950	0.18293	0.41613
	SN->Q (RF)	-	0.08897	0.19701	0.41932

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7L	D->QN (FR)	-	0.11399	0.26714	0.65431
	G->QN (RR)	SN	0.10633	0.23233	0.54400
	SN->QN (RR)	-	0.12489	0.24569	0.54691

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7L	D->QN (RF)	-	0.07667	0.17893	0.41319
	G->QN (RF)	SN	0.09247	0.18645	0.40189
	SN->QN (FF)	-	0.08033	0.19115	0.45610

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7L	hold	G (F)	-0.04493	0.00368	0.07763
	setup	G (F)	-0.04060	0.01669	0.07759

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7L	hold	G (F)	-0.14698	-0.05370	0.01285
	setup	G (F)	0.03013	0.10025	0.21262

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX1H7L	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7L	recovery	G (F)	0.03871	0.07950	0.10769
	removal	G (F)	-0.06990	-0.04072	0.00329

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7L	D	-	0.00133	0.00150	0.00214
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00181	0.00197	0.00261
	G	SN	0.00180	0.00202	0.00268
	G	SN	0.00000	0.00001	0.00003
	G	SN	-0.00003	-0.00002	-0.00000
	G	SN	0.00212	0.00233	0.00300
	SN	-	0.00192	0.00214	0.00280
	SN	-	0.00002	0.00005	0.00007
	SN	-	-0.00004	-0.00002	-0.00000
	SN	-	0.00181	0.00202	0.00270

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7L	D	-	0.00184	0.00202	0.00282
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00002	0.00004	0.00006
	D	-	0.00137	0.00155	0.00235
	G	SN	0.00183	0.00202	0.00271
	G	SN	-0.00002	-0.00001	0.00000
	G	SN	0.00000	0.00002	0.00004
	G	SN	0.00208	0.00228	0.00297
	SN	-	0.00192	0.00209	0.00270
	SN	-	-0.00005	-0.00005	-0.00002
	SN	-	0.00002	0.00003	0.00005
	SN	-	0.00202	0.00220	0.00281

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7L	D	-	0.00184	0.00202	0.00282
	D	-	-0.00003	-0.00003	-0.00002
	D	-	0.00004	0.00004	0.00006
	D	-	0.00137	0.00155	0.00235
	G	SN	0.00183	0.00203	0.00272
	G	SN	-0.00002	-0.00001	0.00000
	G	SN	0.00002	0.00002	0.00003
	G	SN	0.00209	0.00228	0.00297
	SN	-	0.00192	0.00209	0.00271
	SN	-	-0.00005	-0.00004	-0.00003
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00203	0.00220	0.00281

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7L	D	-	0.00133	0.00150	0.00214
	D	-	0.00003	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00180	0.00197	0.00261
	G	SN	0.00181	0.00201	0.00267
	G	SN	0.00000	0.00001	0.00002
	G	SN	-0.00003	-0.00002	-0.00002
	G	SN	0.00212	0.00233	0.00299
	SN	-	0.00192	0.00213	0.00279
	SN	-	0.00003	0.00005	0.00007
	SN	-	-0.00003	-0.00002	-0.00001
	SN	-	0.00179	0.00202	0.00269

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00010	0.00040	0.00144
	0.00005	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00100	0.00131	0.00236

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00081	0.00115	0.00227
	-0.00005	-0.00005	-0.00005
	0.00003	0.00004	0.00004
	-0.00009	0.00024	0.00136

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00089	0.00124	0.00245
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00146	0.00181	0.00302

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00166	0.00205	0.00338
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00113	0.00151	0.00282

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00015	0.00048	0.00161
	0.00003	0.00004	0.00004
	-0.00002	-0.00002	-0.00002
	0.00091	0.00125	0.00238

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7L	0.00097	0.00133	0.00254
	-0.00004	-0.00004	-0.00003
	0.00002	0.00002	0.00002
	0.00021	0.00057	0.00179

LATHSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX2H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX2H7L	0.00115	0.00084	0.00091	0.09447	0.09532

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX2H7L	0.00000	7.27740	8.69940

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7L	D->Q (RR)	-	0.05101	0.19571	0.53857
	G->Q (RR)	SN	0.06630	0.20169	0.51508
	SN->Q (FR)	-	0.05572	0.20458	0.56599

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7L	D->Q (FF)	-	0.08022	0.22597	0.55845
	G->Q (RF)	SN	0.07166	0.18992	0.43098
	SN->Q (RF)	-	0.09110	0.20317	0.43216

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7L	D->QN (FR)	-	0.12356	0.27861	0.67178
	G->QN (RR)	SN	0.11603	0.24361	0.55985
	SN->QN (RR)	-	0.13445	0.25619	0.56093

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7L	D->QN (RF)	-	0.08300	0.18982	0.43419
	G->QN (RF)	SN	0.09827	0.19610	0.41950
	SN->QN (FF)	-	0.08531	0.19974	0.47228

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7L	hold	G (F)	-0.04842	0.00199	0.07647
	setup	G (F)	-0.04221	0.02020	0.08689

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7L	hold	G (F)	-0.15119	-0.05589	0.01336
	setup	G (F)	0.03447	0.10886	0.22917

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX2H7L	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7L	recovery	G (F)	0.04643	0.08732	0.11485
	removal	G (F)	-0.06923	-0.04195	0.00132

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7L	D	-	0.00156	0.00173	0.00249
	D	-	0.00002	0.00003	0.00005
	D	-	-0.00005	-0.00004	-0.00002
	D	-	0.00203	0.00220	0.00297
	G	SN	0.00206	0.00228	0.00296
	G	SN	0.00000	0.00001	0.00002
	G	SN	-0.00003	-0.00002	-0.00001
	G	SN	0.00238	0.00259	0.00329
	SN	-	0.00213	0.00236	0.00302
	SN	-	0.00002	0.00005	0.00007
	SN	-	-0.00003	-0.00003	0.00000
	SN	-	0.00203	0.00225	0.00292

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7L	D	-	0.00205	0.00226	0.00323
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00002	0.00004	0.00005
	D	-	0.00157	0.00178	0.00275
	G	SN	0.00208	0.00229	0.00306
	G	SN	-0.00002	-0.00001	0.00000
	G	SN	0.00001	0.00002	0.00003
	G	SN	0.00232	0.00253	0.00330
	SN	-	0.00212	0.00231	0.00299
	SN	-	-0.00006	-0.00004	-0.00002
	SN	-	0.00001	0.00003	0.00005
	SN	-	0.00223	0.00242	0.00309

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7L	D	-	0.00205	0.00226	0.00323
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00000	0.00004	0.00007
	D	-	0.00158	0.00178	0.00275
	G	SN	0.00208	0.00229	0.00306
	G	SN	-0.00001	-0.00001	0.00000
	G	SN	0.00001	0.00002	0.00004
	G	SN	0.00233	0.00253	0.00330
	SN	-	0.00213	0.00232	0.00299
	SN	-	-0.00006	-0.00004	-0.00002
	SN	-	0.00001	0.00003	0.00005
	SN	-	0.00223	0.00242	0.00309

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7L	D	-	0.00156	0.00173	0.00249
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00000
	D	-	0.00204	0.00220	0.00297
	G	SN	0.00207	0.00228	0.00297
	G	SN	0.00000	0.00001	0.00001
	G	SN	-0.00003	-0.00002	-0.00001
	G	SN	0.00237	0.00259	0.00329
	SN	-	0.00214	0.00236	0.00302
	SN	-	0.00002	0.00004	0.00006
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00202	0.00225	0.00292

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00010	0.00040	0.00145
	0.00005	0.00005	0.00005
	-0.00005	-0.00004	-0.00003
	0.00100	0.00131	0.00236

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00081	0.00115	0.00227
	-0.00005	-0.00005	-0.00005
	0.00004	0.00004	0.00005
	-0.00009	0.00024	0.00136

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00096	0.00132	0.00256
	-0.00000	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00152	0.00188	0.00312

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00171	0.00211	0.00348
	0.00000	0.00001	0.00002
	-0.00000	-0.00000	0.00000
	0.00118	0.00159	0.00294

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00016	0.00049	0.00161
	0.00002	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	0.00092	0.00125	0.00238

Passive power(pJ) for SN falling :

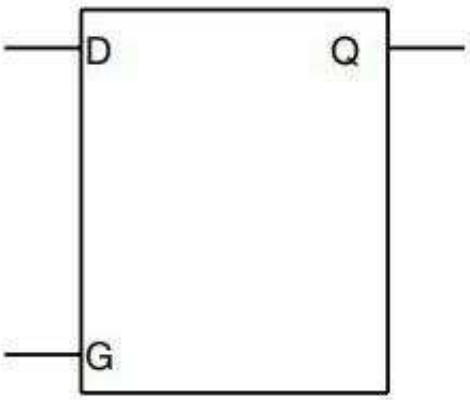
Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7L	0.00097	0.00133	0.00254
	-0.00004	-0.00003	-0.00002
	0.00002	0.00002	0.00002
	0.00021	0.00057	0.00179

LATHX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX0P5H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX0P5H7L	0.00075	0.00098	0.06315	0.06309

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX0P5H7L	0.00000	4.45871	5.19672

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7L	D->Q (RR)	G	0.04231	0.17795	0.50752
	G->Q (RR)	-	0.07223	0.20382	0.51550

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7L	D->Q (FF)	G	0.05331	0.17855	0.47739
	G->Q (RF)	-	0.05971	0.16379	0.39243

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7L	D->QN (FR)	G	0.07785	0.22558	0.60022
	G->QN (RR)	-	0.08441	0.21213	0.52835

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7L	D->QN (RF)	G	0.06212	0.15754	0.38267
	G->QN (RF)	-	0.09232	0.18454	0.39959

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7L	hold	G (F)	-0.02469	0.02022	0.08343
	setup	G (F)	-0.06439	-0.00552	0.04807

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7L	hold	G (F)	-0.12123	-0.03991	0.01680
	setup	G (F)	0.02903	0.07040	0.16575

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX0P5H7L	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7L	D	G	0.00098	0.00111	0.00153
	D	G	0.00000	0.00002	0.00004
	D	G	-0.00003	-0.00003	-0.00003
	D	G	0.00132	0.00144	0.00186
	G	-	0.00157	0.00176	0.00239
	G	-	0.00003	0.00003	0.00003
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00199	0.00218	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7L	D	G	0.00128	0.00140	0.00191
	D	G	-0.00003	-0.00002	-0.00000
	D	G	0.00003	0.00003	0.00004
	D	G	0.00095	0.00108	0.00158
	G	-	0.00156	0.00176	0.00245
	G	-	-0.00002	-0.00002	0.00000
	G	-	0.00001	0.00003	0.00005
	G	-	0.00184	0.00205	0.00274

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7L	D	G	0.00128	0.00141	0.00191
	D	G	-0.00003	-0.00002	-0.00002
	D	G	0.00002	0.00003	0.00005
	D	G	0.00093	0.00108	0.00158
	G	-	0.00156	0.00177	0.00245
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00003	0.00003	0.00005
	G	-	0.00183	0.00205	0.00274

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7L	D	G	0.00099	0.00111	0.00153
	D	G	0.00002	0.00002	0.00003
	D	G	-0.00003	-0.00003	-0.00002
	D	G	0.00132	0.00143	0.00186
	G	-	0.00157	0.00176	0.00238
	G	-	0.00001	0.00003	0.00004
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00198	0.00218	0.00280

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7L	-0.00019	-0.00018	-0.00017
	-0.00001	-0.00001	-0.00000
	0.00000	0.00001	0.00001
	0.00026	0.00027	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7L	0.00020	0.00020	0.00020
	0.00000	0.00001	0.00001
	-0.00001	-0.00001	-0.00000
	-0.00025	-0.00025	-0.00025

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7L	0.00102	0.00135	0.00253
	-0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00175	0.00208	0.00327

Passive power(pJ) for G falling :

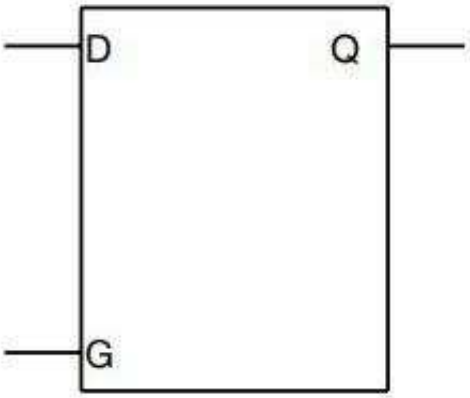
Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7L	0.00173	0.00211	0.00343
	-0.00001	0.00000	0.00001
	-0.00001	-0.00000	-0.00000
	0.00104	0.00142	0.00274

LATHX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX1H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX1H7L	0.00063	0.00098	0.07486	0.07454

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX1H7L	0.00000	4.58461	5.22574

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7L	D->Q (RR)	G	0.04682	0.18596	0.51876
	G->Q (RR)	-	0.07697	0.21043	0.52265

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7L	D->Q (FF)	G	0.07559	0.21467	0.53726
	G->Q (RF)	-	0.07878	0.19163	0.42768

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7L	D->QN (FR)	G	0.10673	0.25756	0.64704
	G->QN (RR)	-	0.11019	0.23568	0.55160

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7L	D->QN (RF)	G	0.06922	0.16601	0.39252
	G->QN (RF)	-	0.09965	0.19165	0.40670

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7L	hold	G (F)	-0.03138	0.01306	0.07562
	setup	G (F)	-0.05428	0.00437	0.06054

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7L	hold	G (F)	-0.16097	-0.06357	-0.00735
	setup	G (F)	0.04920	0.10064	0.21349

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX1H7L	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7L	D	G	0.00104	0.00115	0.00157
	D	G	0.00001	0.00001	0.00003
	D	G	-0.00002	-0.00002	-0.00001
	D	G	0.00132	0.00142	0.00183
	G	-	0.00158	0.00178	0.00241
	G	-	0.00000	0.00001	0.00004
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00199	0.00219	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7L	D	G	0.00127	0.00139	0.00192
	D	G	-0.00002	-0.00001	-0.00001
	D	G	0.00001	0.00002	0.00002
	D	G	0.00101	0.00112	0.00166
	G	-	0.00159	0.00180	0.00252
	G	-	-0.00001	-0.00001	0.00001
	G	-	0.00001	0.00002	0.00002
	G	-	0.00191	0.00211	0.00283

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7L	D	G	0.00128	0.00139	0.00192
	D	G	-0.00002	-0.00001	0.00000
	D	G	0.00002	0.00002	0.00002
	D	G	0.00101	0.00112	0.00166
	G	-	0.00160	0.00180	0.00252
	G	-	-0.00001	-0.00001	-0.00000
	G	-	0.00002	0.00002	0.00002
	G	-	0.00192	0.00211	0.00283

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7L	D	G	0.00105	0.00115	0.00156
	D	G	0.00000	0.00001	0.00002
	D	G	-0.00002	-0.00002	-0.00002
	D	G	0.00132	0.00142	0.00183
	G	-	0.00159	0.00178	0.00241
	G	-	0.00000	0.00001	0.00003
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00199	0.00218	0.00283

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7L	-0.00015	-0.00015	-0.00014
	-0.00000	-0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00025	0.00025	0.00026

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7L	0.00016	0.00016	0.00016
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	-0.00024	-0.00024	-0.00024

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7L	0.00098	0.00132	0.00251
	-0.00000	-0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00171	0.00204	0.00324

Passive power(pJ) for G falling :

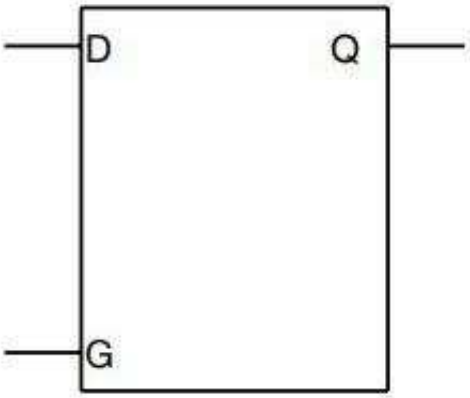
Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7L	0.00171	0.00210	0.00343
	-0.00000	0.00000	0.00001
	-0.00000	0.00000	0.00000
	0.00101	0.00139	0.00272

LATHX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX2H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX2H7L	0.00075	0.00098	0.08626	0.08609

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX2H7L	0.00000	4.84668	5.58471

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7L	D->Q (RR)	G	0.04326	0.18125	0.51387
	G->Q (RR)	-	0.07292	0.20572	0.51770

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7L	D->Q (FF)	G	0.05539	0.18429	0.48848
	G->Q (RF)	-	0.06196	0.16885	0.40060

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7L	D->QN (FR)	G	0.08388	0.23195	0.60828
	G->QN (RR)	-	0.09069	0.21772	0.53414

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7L	D->QN (RF)	G	0.06676	0.16417	0.39348
	G->QN (RF)	-	0.09668	0.18958	0.40593

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7L	hold	G (F)	-0.02970	0.01704	0.08097
	setup	G (F)	-0.05966	0.00006	0.05741

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7L	hold	G (F)	-0.12559	-0.04309	0.01318
	setup	G (F)	0.03199	0.07718	0.17737

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX2H7L	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7L	D	G	0.00116	0.00129	0.00177
	D	G	0.00000	0.00003	0.00005
	D	G	-0.00003	-0.00003	-0.00003
	D	G	0.00149	0.00162	0.00210
	G	-	0.00171	0.00193	0.00256
	G	-	0.00001	0.00003	0.00006
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00215	0.00236	0.00302

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7L	D	G	0.00144	0.00157	0.00215
	D	G	-0.00003	-0.00002	-0.00000
	D	G	0.00003	0.00003	0.00004
	D	G	0.00110	0.00125	0.00183
	G	-	0.00172	0.00193	0.00263
	G	-	-0.00003	-0.00002	0.00000
	G	-	0.00001	0.00003	0.00005
	G	-	0.00201	0.00223	0.00293

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7L	D	G	0.00144	0.00158	0.00216
	D	G	-0.00003	-0.00002	-0.00001
	D	G	0.00003	0.00003	0.00005
	D	G	0.00111	0.00125	0.00183
	G	-	0.00172	0.00193	0.00263
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00003	0.00003	0.00005
	G	-	0.00202	0.00223	0.00293

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7L	D	G	0.00116	0.00129	0.00177
	D	G	0.00001	0.00003	0.00004
	D	G	-0.00003	-0.00003	-0.00003
	D	G	0.00150	0.00161	0.00209
	G	-	0.00173	0.00193	0.00256
	G	-	0.00001	0.00003	0.00003
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00215	0.00236	0.00300

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7L	-0.00020	-0.00019	-0.00017
	-0.00001	-0.00001	-0.00000
	0.00001	0.00001	0.00001
	0.00025	0.00026	0.00026

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7L	0.00021	0.00021	0.00021
	0.00000	0.00001	0.00001
	-0.00001	-0.00001	-0.00000
	-0.00024	-0.00024	-0.00024

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7L	0.00099	0.00133	0.00251
	-0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00174	0.00207	0.00326

Passive power(pJ) for G falling :

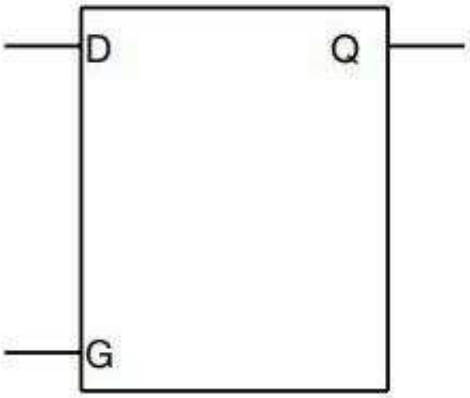
Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7L	0.00173	0.00211	0.00343
	-0.00001	-0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00102	0.00140	0.00271

LATHX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX3H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX3H7L	0.00082	0.00097	0.13322	0.13318

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX3H7L	0.00000	6.18088	6.97837

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7L	D->Q (RR)	G	0.04139	0.18031	0.51390
	G->Q (RR)	-	0.06893	0.20324	0.51754

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7L	D->Q (FF)	G	0.05406	0.18409	0.48974
	G->Q (RF)	-	0.06373	0.17296	0.40860

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7L	D->QN (FR)	G	0.08691	0.23542	0.61297
	G->QN (RR)	-	0.09695	0.22523	0.54487

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7L	D->QN (RF)	G	0.06908	0.16857	0.40117
	G->QN (RF)	-	0.09681	0.19195	0.41161

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7L	hold	G (F)	-0.03056	0.01775	0.08536
	setup	G (F)	-0.06500	0.00180	0.06677

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7L	hold	G (F)	-0.12705	-0.04256	0.01545
	setup	G (F)	0.03236	0.07796	0.17911

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX3H7L	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7L	D	G	0.00140	0.00154	0.00221
	D	G	0.00003	0.00003	0.00006
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00177	0.00191	0.00258
	G	-	0.00201	0.00222	0.00288
	G	-	0.00000	0.00003	0.00003
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00244	0.00264	0.00334

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7L	D	G	0.00179	0.00195	0.00275
	D	G	-0.00004	-0.00003	-0.00003
	D	G	0.00001	0.00003	0.00005
	D	G	0.00142	0.00158	0.00239
	G	-	0.00207	0.00231	0.00311
	G	-	-0.00002	-0.00002	0.00001
	G	-	0.00001	0.00003	0.00006
	G	-	0.00236	0.00258	0.00338

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7L	D	G	0.00179	0.00195	0.00275
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00003	0.00003	0.00003
	D	G	0.00142	0.00158	0.00239
	G	-	0.00210	0.00231	0.00311
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00004	0.00004	0.00004
	G	-	0.00237	0.00259	0.00338

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7L	D	G	0.00140	0.00154	0.00221
	D	G	0.00001	0.00003	0.00004
	D	G	-0.00003	-0.00003	-0.00002
	D	G	0.00176	0.00191	0.00258
	G	-	0.00201	0.00221	0.00289
	G	-	0.00001	0.00003	0.00004
	G	-	-0.00004	-0.00002	-0.00001
	G	-	0.00244	0.00264	0.00336

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7L	-0.00020	-0.00019	-0.00018
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00028	0.00029	0.00030

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7L	0.00022	0.00022	0.00022
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00027	-0.00026	-0.00026

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7L	0.00109	0.00144	0.00266
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00177	0.00211	0.00333

Passive power(pJ) for G falling :

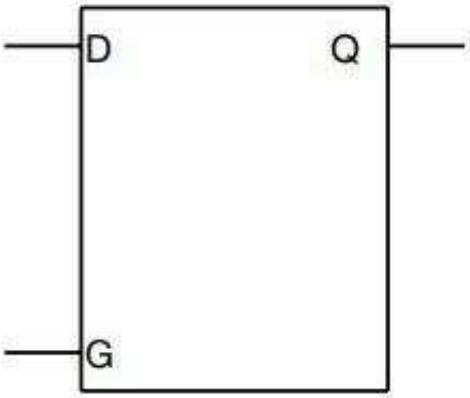
Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7L	0.00182	0.00221	0.00356
	-0.00000	-0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00110	0.00150	0.00284

LATHX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX4H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX4H7L	0.00082	0.00097	0.18116	0.18056

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX4H7L	0.00000	6.96348	7.76038

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7L	D->Q (RR)	G	0.04580	0.18834	0.52772
	G->Q (RR)	-	0.07374	0.20948	0.52439

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7L	D->Q (FF)	G	0.06155	0.19916	0.52030
	G->Q (RF)	-	0.07014	0.18497	0.43127

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7L	D->QN (FR)	G	0.10166	0.25068	0.63230
	G->QN (RR)	-	0.11062	0.23722	0.55550

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7L	D->QN (RF)	G	0.08102	0.18595	0.43240
	G->QN (RF)	-	0.10918	0.20717	0.43526

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7L	hold	G (F)	-0.03950	0.01187	0.08151
	setup	G (F)	-0.06071	0.01221	0.08253

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7L	hold	G (F)	-0.14040	-0.05157	0.00692
	setup	G (F)	0.04198	0.09171	0.20154

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX4H7L	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7L	D	G	0.00183	0.00199	0.00285
	D	G	0.00001	0.00003	0.00006
	D	G	-0.00004	-0.00003	-0.00000
	D	G	0.00219	0.00235	0.00321
	G	-	0.00243	0.00265	0.00331
	G	-	0.00001	0.00003	0.00006
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00286	0.00307	0.00376

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7L	D	G	0.00218	0.00237	0.00341
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00000	0.00003	0.00006
	D	G	0.00181	0.00200	0.00305
	G	-	0.00245	0.00271	0.00360
	G	-	-0.00003	-0.00002	0.00001
	G	-	0.00001	0.00004	0.00007
	G	-	0.00275	0.00298	0.00387

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7L	D	G	0.00218	0.00237	0.00341
	D	G	-0.00003	-0.00003	-0.00000
	D	G	0.00000	0.00003	0.00006
	D	G	0.00182	0.00200	0.00305
	G	-	0.00248	0.00272	0.00361
	G	-	-0.00003	-0.00002	0.00000
	G	-	0.00001	0.00004	0.00008
	G	-	0.00274	0.00298	0.00388

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7L	D	G	0.00183	0.00199	0.00285
	D	G	0.00001	0.00003	0.00003
	D	G	-0.00005	-0.00003	0.00000
	D	G	0.00219	0.00235	0.00321
	G	-	0.00243	0.00264	0.00330
	G	-	0.00001	0.00003	0.00003
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00286	0.00307	0.00373

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7L	-0.00020	-0.00019	-0.00017
	-0.00001	-0.00001	0.00000
	0.00001	0.00001	0.00001
	0.00028	0.00029	0.00030

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7L	0.00022	0.00022	0.00022
	0.00000	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00027	-0.00027	-0.00026

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7L	0.00108	0.00142	0.00264
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00173	0.00208	0.00331

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7L	0.00179	0.00218	0.00353
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00108	0.00147	0.00281

LATLRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX0P5H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX0P5H7L	0.00075	0.00095	0.00098	0.06281	0.06331

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX0P5H7L	0.00000	4.65495	7.35124

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7L	D->Q (RR)	-	0.05783	0.20365	0.55144
	GN->Q (FR)	RN	0.07255	0.22976	0.60208
	RN->Q (RR)	-	0.05945	0.20107	0.53970

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7L	D->Q (FF)	-	0.04861	0.17719	0.47744
	GN->Q (FF)	RN	0.07347	0.19693	0.46976
	RN->Q (FF)	-	0.04804	0.18065	0.49423

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7L	D->QN (FR)	-	0.07597	0.22695	0.59885
	GN->QN (FR)	RN	0.10075	0.24824	0.61163
	RN->QN (FR)	-	0.07370	0.23092	0.61665

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7L	D->QN (RF)	-	0.08199	0.18615	0.42854
	GN->QN (FF)	RN	0.09721	0.21341	0.48831
	RN->QN (RF)	-	0.08360	0.18356	0.41751

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7L	hold	GN (R)	-0.09200	-0.04497	-0.02004
	setup	GN (R)	0.04049	0.07569	0.13113

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7L	hold	GN (R)	-0.11538	-0.03498	0.01402
	setup	GN (R)	0.02607	0.07362	0.18268

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX0P5H7L	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7L	recovery	GN (R)	0.04067	0.07489	0.12490
	removal	GN (R)	-0.08812	-0.04568	-0.02335

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7L	D	-	0.00116	0.00132	0.00196
	D	-	0.00003	0.00003	0.00004
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00150	0.00166	0.00230
	GN	RN	0.00200	0.00221	0.00295
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	-0.00002	-0.00001	0.00000
	GN	RN	0.00170	0.00192	0.00265
	RN	-	0.00118	0.00128	0.00171
	RN	-	0.00003	0.00004	0.00004
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00168	0.00179	0.00223

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7L	D	-	0.00142	0.00163	0.00239
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00002	0.00003	0.00004
	D	-	0.00109	0.00128	0.00205
	GN	RN	0.00211	0.00234	0.00305
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00170	0.00192	0.00264
	RN	-	0.00152	0.00168	0.00232
	RN	-	-0.00003	-0.00003	-0.00001
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00101	0.00117	0.00181

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7L	D	-	0.00144	0.00163	0.00239
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00003	0.00003
	D	-	0.00110	0.00129	0.00205
	GN	RN	0.00211	0.00234	0.00306
	GN	RN	-0.00002	-0.00002	-0.00001
	GN	RN	0.00001	0.00001	0.00001
	GN	RN	0.00170	0.00192	0.00266
	RN	-	0.00152	0.00168	0.00232
	RN	-	-0.00003	-0.00002	0.00001
	RN	-	0.00001	0.00003	0.00005
	RN	-	0.00102	0.00117	0.00182

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7L	D	-	0.00116	0.00132	0.00196
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00003	-0.00003	-0.00001
	D	-	0.00148	0.00166	0.00230
	GN	RN	0.00199	0.00221	0.00295
	GN	RN	0.00001	0.00002	0.00002
	GN	RN	-0.00001	-0.00001	-0.00001
	GN	RN	0.00170	0.00192	0.00265
	RN	-	0.00118	0.00128	0.00171
	RN	-	0.00003	0.00003	0.00004
	RN	-	-0.00005	-0.00003	-0.00001
	RN	-	0.00168	0.00179	0.00222

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	-0.00001	0.00033	0.00143
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00057	0.00091	0.00201

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	0.00058	0.00097	0.00217
	-0.00004	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	0.00000	0.00038	0.00159

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	0.00109	0.00142	0.00259
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00003
	0.00178	0.00212	0.00329

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	0.00173	0.00210	0.00339
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00100	0.00138	0.00267

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	-0.00000
	0.00000	0.00000	0.00001
	0.00042	0.00042	0.00044

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7L	0.00018	0.00019	0.00020
	0.00000	0.00000	0.00002
	-0.00001	-0.00000	0.00000
	-0.00040	-0.00040	-0.00038

LATLRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX1H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX1H7L	0.00075	0.00095	0.00098	0.07445	0.07464

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX1H7L	0.00000	4.84639	7.55877

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7L	D->Q (RR)	-	0.05717	0.20450	0.55453
	GN->Q (FR)	RN	0.07185	0.23005	0.60343
	RN->Q (RR)	-	0.05884	0.20178	0.54201

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7L	D->Q (FF)	-	0.04726	0.17669	0.47786
	GN->Q (FF)	RN	0.07229	0.19675	0.47087
	RN->Q (FF)	-	0.04785	0.18195	0.49823

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7L	D->QN (FR)	-	0.07534	0.22576	0.59573
	GN->QN (FR)	RN	0.10026	0.24732	0.60951
	RN->QN (FR)	-	0.07430	0.23136	0.61677

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7L	D->QN (RF)	-	0.08258	0.18764	0.43167
	GN->QN (FF)	RN	0.09779	0.21429	0.48947
	RN->QN (RF)	-	0.08426	0.18491	0.41988

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7L	hold	GN (R)	-0.09415	-0.04567	-0.02004
	setup	GN (R)	0.03942	0.07721	0.13200

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7L	hold	GN (R)	-0.11538	-0.03425	0.01402
	setup	GN (R)	0.02615	0.07300	0.18601

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX1H7L	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7L	recovery	GN (R)	0.04395	0.07639	0.12652
	removal	GN (R)	-0.09027	-0.04627	-0.02438

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7L	D	-	0.00120	0.00136	0.00205
	D	-	0.00002	0.00004	0.00005
	D	-	-0.00003	-0.00003	-0.00002
	D	-	0.00154	0.00170	0.00239
	GN	RN	0.00203	0.00225	0.00300
	GN	RN	0.00000	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	0.00000
	GN	RN	0.00174	0.00196	0.00271
	RN	-	0.00122	0.00132	0.00179
	RN	-	0.00003	0.00004	0.00005
	RN	-	-0.00005	-0.00005	-0.00004
	RN	-	0.00173	0.00183	0.00230

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7L	D	-	0.00149	0.00168	0.00250
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00003	0.00003	0.00004
	D	-	0.00114	0.00134	0.00216
	GN	RN	0.00215	0.00239	0.00311
	GN	RN	-0.00003	-0.00002	0.00000
	GN	RN	0.00000	0.00001	0.00003
	GN	RN	0.00173	0.00197	0.00270
	RN	-	0.00156	0.00173	0.00242
	RN	-	-0.00003	-0.00003	-0.00001
	RN	-	0.00005	0.00005	0.00006
	RN	-	0.00105	0.00122	0.00192

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7L	D	-	0.00149	0.00169	0.00250
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00003	0.00003	0.00004
	D	-	0.00115	0.00134	0.00216
	GN	RN	0.00216	0.00239	0.00311
	GN	RN	-0.00002	-0.00002	-0.00001
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00175	0.00197	0.00270
	RN	-	0.00157	0.00173	0.00243
	RN	-	-0.00003	-0.00003	-0.00001
	RN	-	0.00002	0.00003	0.00006
	RN	-	0.00107	0.00122	0.00192

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7L	D	-	0.00120	0.00136	0.00205
	D	-	0.00003	0.00004	0.00004
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00154	0.00170	0.00239
	GN	RN	0.00203	0.00225	0.00300
	GN	RN	0.00001	0.00002	0.00002
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00174	0.00195	0.00271
	RN	-	0.00122	0.00132	0.00178
	RN	-	0.00003	0.00004	0.00004
	RN	-	-0.00005	-0.00002	-0.00002
	RN	-	0.00173	0.00183	0.00230

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	-0.00001	0.00033	0.00144
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00057	0.00091	0.00203

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	0.00059	0.00097	0.00220
	-0.00004	-0.00004	-0.00003
	0.00004	0.00004	0.00004
	0.00000	0.00039	0.00161

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	0.00110	0.00143	0.00259
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00003
	0.00179	0.00213	0.00330

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	0.00173	0.00211	0.00340
	-0.00001	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00101	0.00138	0.00268

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	-0.00000
	0.00000	0.00000	0.00001
	0.00042	0.00042	0.00043

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7L	0.00018	0.00019	0.00020
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	-0.00000
	-0.00040	-0.00039	-0.00036

LATLRX2H7L

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX2H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX2H7L	0.00075	0.00095	0.00098	0.09439	0.09520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX2H7L	0.00000	5.68028	7.88063

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7L	D->Q (RR)	-	0.05702	0.20665	0.55988
	GN->Q (FR)	RN	0.07178	0.23196	0.60729
	RN->Q (RR)	-	0.05872	0.20389	0.54687

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7L	D->Q (FF)	-	0.04880	0.18814	0.51162
	GN->Q (FF)	RN	0.07357	0.20721	0.50259
	RN->Q (FF)	-	0.04930	0.19304	0.53203

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7L	D->QN (FR)	-	0.08291	0.23501	0.60994
	GN->QN (FR)	RN	0.10756	0.25544	0.62037
	RN->QN (FR)	-	0.08129	0.24034	0.63112

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7L	D->QN (RF)	-	0.09104	0.19941	0.45172
	GN->QN (FF)	RN	0.10637	0.22536	0.50722
	RN->QN (RF)	-	0.09275	0.19651	0.43934

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7L	hold	GN (R)	-0.09425	-0.04617	-0.02098
	setup	GN (R)	0.04449	0.08213	0.14180

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7L	hold	GN (R)	-0.12022	-0.03679	0.01161
	setup	GN (R)	0.02748	0.07622	0.18587

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX2H7L	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7L	recovery	GN (R)	0.04733	0.08142	0.13550
	removal	GN (R)	-0.09039	-0.04616	-0.02329

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7L	D	-	0.00143	0.00160	0.00237
	D	-	0.00002	0.00004	0.00004
	D	-	-0.00003	-0.00003	-0.00001
	D	-	0.00177	0.00194	0.00272
	GN	RN	0.00227	0.00248	0.00327
	GN	RN	0.00000	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	0.00000
	GN	RN	0.00196	0.00219	0.00297
	RN	-	0.00145	0.00155	0.00209
	RN	-	0.00004	0.00004	0.00005
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00196	0.00207	0.00261

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7L	D	-	0.00170	0.00191	0.00281
	D	-	-0.00004	-0.00004	-0.00002
	D	-	0.00001	0.00003	0.00005
	D	-	0.00136	0.00156	0.00247
	GN	RN	0.00237	0.00260	0.00332
	GN	RN	-0.00003	-0.00002	-0.00000
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00196	0.00219	0.00291
	RN	-	0.00178	0.00195	0.00274
	RN	-	-0.00003	-0.00003	-0.00001
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00128	0.00145	0.00223

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7L	D	-	0.00170	0.00191	0.00281
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00003	0.00003	0.00003
	D	-	0.00136	0.00156	0.00247
	GN	RN	0.00238	0.00261	0.00334
	GN	RN	-0.00002	-0.00002	-0.00000
	GN	RN	0.00001	0.00001	0.00003
	GN	RN	0.00196	0.00219	0.00294
	RN	-	0.00179	0.00196	0.00274
	RN	-	-0.00003	-0.00003	0.00000
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00128	0.00145	0.00223

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7L	D	-	0.00142	0.00160	0.00237
	D	-	0.00004	0.00004	0.00005
	D	-	-0.00003	-0.00003	-0.00003
	D	-	0.00177	0.00194	0.00272
	GN	RN	0.00226	0.00248	0.00327
	GN	RN	0.00000	0.00002	0.00002
	GN	RN	-0.00003	-0.00001	-0.00001
	GN	RN	0.00197	0.00219	0.00297
	RN	-	0.00145	0.00155	0.00209
	RN	-	0.00004	0.00004	0.00004
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00196	0.00207	0.00260

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	-0.00001	0.00033	0.00144
	0.00004	0.00004	0.00004
	-0.00004	-0.00004	-0.00004
	0.00057	0.00091	0.00203

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	0.00058	0.00097	0.00219
	-0.00004	-0.00004	-0.00003
	0.00004	0.00004	0.00004
	0.00000	0.00039	0.00161

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	0.00109	0.00143	0.00259
	0.00000	0.00000	0.00001
	0.00000	0.00001	0.00003
	0.00179	0.00213	0.00330

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	0.00173	0.00211	0.00340
	-0.00001	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00101	0.00139	0.00268

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	-0.00000
	-0.00000	0.00001	0.00001
	0.00042	0.00042	0.00043

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7L	0.00018	0.00019	0.00019
	0.00000	0.00000	0.00002
	-0.00001	-0.00001	0.00000
	-0.00040	-0.00039	-0.00038

LATLSRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX0P5H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX0P5H7L	0.00155	0.00097	0.00081	0.00080	0.06353	0.06293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX0P5H7L	0.00000	5.87831	10.47210

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7L	D->Q (RR)	-	0.06554	0.21218	0.55781
	GN->Q (FR)	-	0.08102	0.24387	0.62530
	RN->Q (RR)	(D * !GN)	0.06646	0.21431	0.56180
	SN->Q (FR)	(D * GN * RN)	0.05511	0.20241	0.56385
	SN->Q (FR)	(D * GN * !RN)	0.05687	0.20657	0.57146
	SN->Q (FR)	(D * !GN * !RN)	0.06016	0.21274	0.57913
	SN->Q (FR)	(!D * GN * RN)	0.05490	0.20245	0.56427
	SN->Q (FR)	(!D * GN * !RN)	0.05819	0.20773	0.57226
	SN->Q (FR)	(!D * !GN * RN)	0.05872	0.20914	0.57345
	SN->Q (FR)	(!D * !GN * !RN)	0.06039	0.21038	0.57484

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7L	D->Q (FF)	-	0.07975	0.22360	0.55379
	GN->Q (FF)	-	0.08672	0.22463	0.51470
	RN->Q (FF)	(D * GN)	0.08852	0.23768	0.57509
	RN->Q (FF)	(D * !GN)	0.09414	0.25254	0.61453
	RN->Q (FF)	(!D * GN)	0.07885	0.22680	0.55988
	SN->Q (RF)	(D * GN * !RN)	0.10681	0.21328	0.43218
	SN->Q (RF)	(D * !GN * !RN)	0.11228	0.22605	0.45282
	SN->Q (RF)	(!D * GN * !RN)	0.10709	0.21404	0.43478
	SN->Q (RF)	(!D * !GN * RN)	0.09388	0.20367	0.42812
	SN->Q (RF)	(!D * !GN * !RN)	0.08007	0.18334	0.40390

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7L	D->QN (FR)	-	0.11935	0.27368	0.66417
	GN->QN (FR)	-	0.12582	0.27558	0.64382
	RN->QN (FR)	(D * GN)	0.12920	0.29164	0.70279
	RN->QN (FR)	(D * !GN)	0.13654	0.30098	0.71869
	RN->QN (FR)	(!D * GN)	0.11893	0.28040	0.68680
	SN->QN (RR)	(D * GN * !RN)	0.14758	0.26754	0.56703
	SN->QN (RR)	(D * !GN * !RN)	0.15474	0.27543	0.57505
	SN->QN (RR)	(!D * GN * !RN)	0.14728	0.26798	0.56923
	SN->QN (RR)	(!D * !GN * RN)	0.13350	0.25458	0.55533
	SN->QN (RR)	(!D * !GN * !RN)	0.11492	0.23690	0.53988

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7L	D->QN (RF)	-	0.09706	0.19857	0.43254
	GN->QN (FF)	-	0.11290	0.23109	0.50895
	RN->QN (RF)	(D * !GN)	0.09805	0.20074	0.43643
	SN->QN (FF)	(D * GN * RN)	0.08316	0.19285	0.45637
	SN->QN (FF)	(D * GN * !RN)	0.08515	0.19539	0.45999
	SN->QN (FF)	(D * !GN * !RN)	0.09134	0.20231	0.46793
	SN->QN (FF)	(!D * GN * RN)	0.08305	0.19295	0.45689
	SN->QN (FF)	(!D * GN * !RN)	0.08669	0.19700	0.46194
	SN->QN (FF)	(!D * !GN * RN)	0.08822	0.19854	0.46336
	SN->QN (FF)	(!D * !GN * !RN)	0.08899	0.19914	0.46426

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7L	**D**	**-**	0.00144	0.00162	0.00234
	D	**-**	0.00003	0.00004	0.00006
	D	**-**	-0.00005	-0.00005	-0.00004
	D	**-**	0.00208	0.00227	0.00298
	GN	**-**	0.00241	0.00263	0.00334
	GN	**-**	0.00001	0.00002	0.00003
	GN	**-**	-0.00004	-0.00003	-0.00001
	GN	**-**	0.00210	0.00231	0.00303
	RN	**(D * !GN)**	0.00153	0.00162	0.00200
	RN	**(D * !GN)**	0.00003	0.00005	0.00006
	RN	**(D * !GN)**	-0.00009	-0.00008	-0.00007
	RN	**(D * !GN)**	0.00215	0.00224	0.00262
	SN	**(D * GN * RN)**	0.00190	0.00213	0.00279
	SN	**(D * GN * RN)**	0.00001	0.00003	0.00006
	SN	**(D * GN * RN)**	-0.00003	-0.00003	-0.00001
	SN	**(D * GN * RN)**	0.00170	0.00194	0.00260
	SN	**(D * GN * !RN)**	0.00197	0.00221	0.00287
	SN	**(D * GN * !RN)**	0.00003	0.00006	0.00009
	SN	**(D * GN * !RN)**	-0.00006	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00200	0.00224	0.00291
	SN	**(D * !GN * !RN)**	0.00213	0.00236	0.00302
	SN	**(D * !GN * !RN)**	0.00005	0.00007	0.00010
	SN	**(D * !GN * !RN)**	-0.00009	-0.00008	-0.00006
	SN	**(D * !GN * !RN)**	0.00233	0.00254	0.00321
	SN	**(!D * GN * RN)**	0.00191	0.00215	0.00281
	SN	**(!D * GN * RN)**	0.00002	0.00004	0.00007
	SN	**(!D * GN * RN)**	-0.00003	-0.00003	-0.00003
	SN	**(!D * GN * RN)**	0.00178	0.00201	0.00268
	SN	**(!D * GN * !RN)**	0.00196	0.00220	0.00285
	SN	**(!D * GN * !RN)**	0.00005	0.00008	0.00011
	SN	**(!D * GN * !RN)**	-0.00007	-0.00005	-0.00003
	SN	**(!D * GN * !RN)**	0.00204	0.00225	0.00291
	SN	**(!D * !GN * RN)**	0.00209	0.00232	0.00298
	SN	**(!D * !GN * RN)**	0.00005	0.00007	0.00010
	SN	**(!D * !GN * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * !GN * RN)**	0.00216	0.00238	0.00304
	SN	**(!D * !GN * !RN)**	0.00207	0.00230	0.00296
	SN	**(!D * !GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00003
	SN	**(!D * !GN * !RN)**	0.00215	0.00237	0.00304

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7L	**D**	**-**	0.00206	0.00226	0.00314
	D	**-**	-0.00005	-0.00004	-0.00003
	D	**-**	0.00004	0.00005	0.00006
	D	**-**	0.00142	0.00162	0.00250
	GN	**-**	0.00254	0.00276	0.00347
	GN	**-**	-0.00003	-0.00002	-0.00001
	GN	**-**	0.00001	0.00003	0.00004
	GN	**-**	0.00208	0.00230	0.00302
	RN	**(D * GN)**	0.00201	0.00214	0.00276
	RN	**(D * GN)**	-0.00005	-0.00004	-0.00003
	RN	**(D * GN)**	0.00005	0.00007	0.00008
	RN	**(D * GN)**	0.00155	0.00168	0.00230
	RN	**(D * !GN)**	0.00220	0.00235	0.00305
	RN	**(D * !GN)**	-0.00005	-0.00005	-0.00003
	RN	**(D * !GN)**	0.00007	0.00008	0.00009
	RN	**(D * !GN)**	0.00158	0.00173	0.00243
	RN	**(!D * GN)**	0.00183	0.00197	0.00260
	RN	**(!D * GN)**	-0.00005	-0.00003	-0.00001
	RN	**(!D * GN)**	0.00003	0.00005	0.00007
	RN	**(!D * GN)**	0.00147	0.00160	0.00224
	SN	**(D * GN * !RN)**	0.00227	0.00245	0.00306
	SN	**(D * GN * !RN)**	-0.00008	-0.00006	-0.00003
	SN	**(D * GN * !RN)**	0.00004	0.00006	0.00007
	SN	**(D * GN * !RN)**	0.00223	0.00241	0.00302
	SN	**(D * !GN * !RN)**	0.00242	0.00261	0.00323
	SN	**(D * !GN * !RN)**	-0.00007	-0.00007	-0.00005
	SN	**(D * !GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(D * !GN * !RN)**	0.00224	0.00242	0.00304
	SN	**(!D * GN * !RN)**	0.00245	0.00263	0.00323
	SN	**(!D * GN * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(!D * GN * !RN)**	0.00006	0.00007	0.00008
	SN	**(!D * GN * !RN)**	0.00230	0.00248	0.00308
	SN	**(!D * !GN * RN)**	0.00217	0.00235	0.00295
	SN	**(!D * !GN * RN)**	-0.00009	-0.00007	-0.00005
	SN	**(!D * !GN * RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * RN)**	0.00210	0.00227	0.00288
	SN	**(!D * !GN * !RN)**	0.00218	0.00236	0.00296
	SN	**(!D * !GN * !RN)**	-0.00009	-0.00008	-0.00005
	SN	**(!D * !GN * !RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * !RN)**	0.00209	0.00227	0.00287

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7L	**D**	**-**	0.00206	0.00227	0.00315
	D	**-**	-0.00005	-0.00004	-0.00004
	D	**-**	0.00004	0.00005	0.00007
	D	**-**	0.00142	0.00162	0.00251
	GN	**-**	0.00254	0.00276	0.00348
	GN	**-**	-0.00003	-0.00002	0.00000
	GN	**-**	0.00002	0.00003	0.00003
	GN	**-**	0.00209	0.00231	0.00303
	RN	**(D * GN)**	0.00201	0.00214	0.00276
	RN	**(D * GN)**	-0.00005	-0.00004	-0.00002
	RN	**(D * GN)**	0.00005	0.00007	0.00009
	RN	**(D * GN)**	0.00155	0.00168	0.00230
	RN	**(D * !GN)**	0.00220	0.00235	0.00305
	RN	**(D * !GN)**	-0.00005	-0.00004	-0.00004
	RN	**(D * !GN)**	0.00000	0.00008	0.00010
	RN	**(D * !GN)**	0.00158	0.00174	0.00244
	RN	**(!D * GN)**	0.00183	0.00197	0.00260
	RN	**(!D * GN)**	-0.00005	-0.00003	-0.00000
	RN	**(!D * GN)**	0.00004	0.00006	0.00050
	RN	**(!D * GN)**	0.00113	0.00160	0.00224
	SN	**(D * GN * !RN)**	0.00227	0.00245	0.00306
	SN	**(D * GN * !RN)**	-0.00008	-0.00006	-0.00005
	SN	**(D * GN * !RN)**	0.00005	0.00006	0.00007
	SN	**(D * GN * !RN)**	0.00221	0.00241	0.00303
	SN	**(D * !GN * !RN)**	0.00243	0.00261	0.00324
	SN	**(D * !GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * !GN * !RN)**	0.00006	0.00008	0.00010
	SN	**(D * !GN * !RN)**	0.00224	0.00242	0.00305
	SN	**(!D * GN * !RN)**	0.00245	0.00263	0.00324
	SN	**(!D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(!D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(!D * GN * !RN)**	0.00230	0.00248	0.00308
	SN	**(!D * !GN * RN)**	0.00217	0.00235	0.00296
	SN	**(!D * !GN * RN)**	-0.00008	-0.00007	-0.00005
	SN	**(!D * !GN * RN)**	0.00003	0.00004	0.00006
	SN	**(!D * !GN * RN)**	0.00210	0.00228	0.00288
	SN	**(!D * !GN * !RN)**	0.00219	0.00237	0.00296
	SN	**(!D * !GN * !RN)**	-0.00008	-0.00007	-0.00006
	SN	**(!D * !GN * !RN)**	0.00004	0.00004	0.00004
	SN	**(!D * !GN * !RN)**	0.00210	0.00228	0.00287

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7L	**D**	**-**	0.00144	0.00162	0.00234
	D	**-**	0.00004	0.00004	0.00005
	D	**-**	-0.00005	-0.00005	-0.00004
	D	**-**	0.00208	0.00226	0.00298
	GN	**-**	0.00241	0.00263	0.00333
	GN	**-**	0.00000	0.00002	0.00003
	GN	**-**	-0.00003	-0.00003	-0.00002
	GN	**-**	0.00210	0.00237	0.00540
	RN	**(D * !GN)**	0.00153	0.00161	0.00200
	RN	**(D * !GN)**	0.00004	0.00005	0.00006
	RN	**(D * !GN)**	-0.00009	-0.00008	0.00000
	RN	**(D * !GN)**	0.00215	0.00224	0.00262
	SN	**(D * GN * RN)**	0.00191	0.00213	0.00279
	SN	**(D * GN * RN)**	0.00003	0.00003	0.00003
	SN	**(D * GN * RN)**	-0.00003	-0.00003	-0.00003
	SN	**(D * GN * RN)**	0.00171	0.00194	0.00261
	SN	**(D * GN * !RN)**	0.00198	0.00220	0.00287
	SN	**(D * GN * !RN)**	0.00005	0.00006	0.00008
	SN	**(D * GN * !RN)**	-0.00006	-0.00006	-0.00005
	SN	**(D * GN * !RN)**	0.00202	0.00224	0.00291
	SN	**(D * !GN * !RN)**	0.00213	0.00235	0.00301
	SN	**(D * !GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * !GN * !RN)**	-0.00008	-0.00008	-0.00006
	SN	**(D * !GN * !RN)**	0.00231	0.00254	0.00320
	SN	**(!D * GN * RN)**	0.00193	0.00215	0.00281
	SN	**(!D * GN * RN)**	0.00002	0.00004	0.00005
	SN	**(!D * GN * RN)**	-0.00003	-0.00003	-0.00003
	SN	**(!D * GN * RN)**	0.00178	0.00201	0.00271
	SN	**(!D * GN * !RN)**	0.00198	0.00220	0.00286
	SN	**(!D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(!D * GN * !RN)**	-0.00005	-0.00005	-0.00005
	SN	**(!D * GN * !RN)**	0.00203	0.00225	0.00291
	SN	**(!D * !GN * RN)**	0.00209	0.00232	0.00297
	SN	**(!D * !GN * RN)**	0.00005	0.00007	0.00009
	SN	**(!D * !GN * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !GN * RN)**	0.00217	0.00238	0.00304
	SN	**(!D * !GN * !RN)**	0.00207	0.00230	0.00296
	SN	**(!D * !GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00003
	SN	**(!D * !GN * !RN)**	0.00215	0.00237	0.00303

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(GN * RN * SN)	0.00010	0.00047	0.00175
	(GN * RN * SN)	0.00004	0.00005	0.00005
	(GN * RN * SN)	-0.00005	-0.00005	-0.00004
	(GN * RN * SN)	0.00126	0.00163	0.00291
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * RN * !SN)	0.00001	0.00001	0.00001
	(GN * RN * !SN)	0.00064	0.00065	0.00065
	(GN * !RN * SN)	-0.00043	-0.00039	-0.00034
	(GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(GN * !RN * SN)	0.00001	0.00002	0.00003
	(GN * !RN * SN)	0.00024	0.00025	0.00028
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00000
	(GN * !RN * !SN)	0.00001	0.00001	0.00002
	(GN * !RN * !SN)	0.00063	0.00064	0.00065
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00010
	(!GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00058	0.00059	0.00059
	(!GN * !RN * SN)	-0.00057	-0.00057	-0.00056
	(!GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(!GN * !RN * SN)	0.00001	0.00002	0.00003
	(!GN * !RN * SN)	0.00012	0.00013	0.00014
	(!GN * !RN * !SN)	-0.00012	-0.00012	-0.00011
	(!GN * !RN * !SN)	-0.00002	-0.00001	-0.00000
	(!GN * !RN * !SN)	0.00001	0.00001	0.00002
	(!GN * !RN * !SN)	0.00057	0.00057	0.00058

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(GN * RN * SN)	0.00123	0.00166	0.00308
	(GN * RN * SN)	-0.00005	-0.00005	-0.00004
	(GN * RN * SN)	0.00004	0.00005	0.00005
	(GN * RN * SN)	0.00007	0.00049	0.00191
	(GN * RN * !SN)	0.00003	0.00003	0.00004
	(GN * RN * !SN)	0.00002	0.00002	0.00002
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00064	-0.00062	-0.00060
	(GN * !RN * SN)	0.00058	0.00058	0.00059
	(GN * !RN * SN)	0.00000	0.00000	0.00000
	(GN * !RN * SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * SN)	-0.00017	-0.00017	-0.00016
	(GN * !RN * !SN)	0.00003	0.00003	0.00005
	(GN * !RN * !SN)	0.00000	0.00002	0.00003
	(GN * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00064	-0.00062	-0.00060
	(!GN * RN * !SN)	0.00011	0.00012	0.00012
	(!GN * RN * !SN)	0.00001	0.00002	0.00002
	(!GN * RN * !SN)	-0.00001	-0.00000	-0.00000
	(!GN * RN * !SN)	-0.00059	-0.00058	-0.00058
	(!GN * !RN * SN)	0.00056	0.00057	0.00058
	(!GN * !RN * SN)	0.00000	0.00001	0.00001
	(!GN * !RN * SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * SN)	-0.00013	-0.00013	-0.00012
	(!GN * !RN * !SN)	0.00012	0.00013	0.00014
	(!GN * !RN * !SN)	0.00001	0.00002	0.00002
	(!GN * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!GN * !RN * !SN)	-0.00057	-0.00055	-0.00053

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7L	**(D * RN * SN)**	0.00118	0.00149	0.00260
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	0.00196	0.00228	0.00338
	(D * RN * !SN)	0.00113	0.00144	0.00254
	(D * RN * !SN)	0.00002	0.00002	0.00002
	(D * RN * !SN)	-0.00000	-0.00000	0.00000
	(D * RN * !SN)	0.00194	0.00225	0.00335
	(D * !RN * SN)	0.00136	0.00167	0.00279
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	0.00000	0.00001	0.00002
	(D * !RN * SN)	0.00212	0.00244	0.00356
	(D * !RN * !SN)	0.00113	0.00143	0.00254
	(D * !RN * !SN)	0.00001	0.00001	0.00002
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00194	0.00224	0.00335
	(!D * RN * SN)	0.00139	0.00170	0.00282
	(!D * RN * SN)	-0.00000	-0.00000	0.00001
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	0.00215	0.00247	0.00359
	(!D * RN * !SN)	0.00114	0.00144	0.00255
	(!D * RN * !SN)	0.00001	0.00002	0.00002
	(!D * RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * RN * !SN)	0.00198	0.00228	0.00337
	(!D * !RN * SN)	0.00138	0.00169	0.00281
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	0.00001	0.00001	0.00002
	(!D * !RN * SN)	0.00213	0.00245	0.00356
	(!D * !RN * !SN)	0.00112	0.00142	0.00253
	(!D * !RN * !SN)	0.00001	0.00002	0.00002
	(!D * !RN * !SN)	0.00000	0.00000	0.00001
	(!D * !RN * !SN)	0.00195	0.00224	0.00334

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7L	**(D * RN * SN)**	0.00206	0.00242	0.00366
	(D * RN * SN)	-0.00001	-0.00000	0.00001
	(D * RN * SN)	-0.00000	0.00000	0.00001
	(D * RN * SN)	0.00128	0.00164	0.00288
	(D * RN * !SN)	0.00212	0.00248	0.00372
	(D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(D * RN * !SN)	0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00130	0.00167	0.00291
	(D * !RN * SN)	0.00185	0.00220	0.00346
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00108	0.00144	0.00269
	(D * !RN * !SN)	0.00211	0.00247	0.00372
	(D * !RN * !SN)	-0.00001	-0.00001	0.00000
	(D * !RN * !SN)	-0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00131	0.00167	0.00291
	(!D * RN * SN)	0.00183	0.00218	0.00343
	(!D * RN * SN)	-0.00000	0.00000	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	0.00000
	(!D * RN * SN)	0.00106	0.00142	0.00266
	(!D * RN * !SN)	0.00210	0.00246	0.00371
	(!D * RN * !SN)	-0.00001	-0.00001	0.00000
	(!D * RN * !SN)	0.00000	0.00000	0.00001
	(!D * RN * !SN)	0.00128	0.00164	0.00289
	(!D * !RN * SN)	0.00183	0.00219	0.00344
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SN)	0.00108	0.00144	0.00268
	(!D * !RN * !SN)	0.00211	0.00247	0.00373
	(!D * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * !SN)	0.00131	0.00167	0.00292

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(D * GN * SN)	-0.00015	-0.00014	-0.00014
	(D * GN * SN)	-0.00000	-0.00000	-0.00000
	(D * GN * SN)	0.00000	0.00000	0.00001
	(D * GN * SN)	0.00034	0.00035	0.00035
	(D * GN * !SN)	-0.00009	-0.00009	-0.00009
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	0.00000	0.00000	0.00000
	(D * GN * !SN)	0.00034	0.00034	0.00034
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * !GN * !SN)	0.00000	0.00000	0.00001
	(D * !GN * !SN)	0.00033	0.00033	0.00034
	(!D * GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * GN * SN)	-0.00000	-0.00000	0.00001
	(!D * GN * SN)	-0.00000	0.00000	0.00000
	(!D * GN * SN)	0.00035	0.00035	0.00036
	(!D * GN * !SN)	-0.00010	-0.00009	-0.00009
	(!D * GN * !SN)	-0.00001	-0.00001	0.00000
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	0.00033	0.00034	0.00034
	(!D * !GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * !GN * SN)	-0.00000	-0.00000	0.00000
	(!D * !GN * SN)	0.00000	0.00000	0.00001
	(!D * !GN * SN)	0.00034	0.00035	0.00035
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00010
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00031	0.00032	0.00032

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(D * GN * SN)	0.00016	0.00017	0.00018
	(D * GN * SN)	0.00000	0.00000	0.00000
	(D * GN * SN)	-0.00001	-0.00000	0.00000
	(D * GN * SN)	-0.00032	-0.00031	-0.00029
	(D * GN * !SN)	0.00010	0.00010	0.00010
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	-0.00000	-0.00000	0.00000
	(D * GN * !SN)	-0.00033	-0.00033	-0.00032
	(D * !GN * !SN)	0.00011	0.00011	0.00012
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	-0.00000	-0.00000	0.00000
	(D * !GN * !SN)	-0.00033	-0.00032	-0.00032
	(!D * GN * SN)	0.00016	0.00017	0.00019
	(!D * GN * SN)	-0.00000	0.00000	0.00000
	(!D * GN * SN)	-0.00000	-0.00000	0.00000
	(!D * GN * SN)	-0.00032	-0.00031	-0.00030
	(!D * GN * !SN)	0.00010	0.00010	0.00011
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	-0.00001	-0.00000	-0.00000
	(!D * GN * !SN)	-0.00033	-0.00033	-0.00033
	(!D * !GN * SN)	0.00016	0.00017	0.00018
	(!D * !GN * SN)	0.00000	0.00000	0.00000
	(!D * !GN * SN)	-0.00001	-0.00000	-0.00000
	(!D * !GN * SN)	-0.00033	-0.00032	-0.00030
	(!D * !GN * !SN)	0.00011	0.00012	0.00012
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !GN * !SN)	-0.00031	-0.00030	-0.00029

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(D * GN * RN)	0.00007	0.00042	0.00159
	(D * GN * RN)	0.00002	0.00003	0.00004
	(D * GN * RN)	-0.00002	-0.00002	-0.00001
	(D * GN * RN)	0.00070	0.00106	0.00223
	(D * !GN * RN)	0.00007	0.00042	0.00159
	(D * !GN * RN)	0.00003	0.00003	0.00004
	(D * !GN * RN)	-0.00002	-0.00002	-0.00002
	(D * !GN * RN)	0.00071	0.00106	0.00223
	(!D * GN * RN)	0.00008	0.00044	0.00160
	(!D * GN * RN)	0.00001	0.00002	0.00003
	(!D * GN * RN)	-0.00002	-0.00002	-0.00001
	(!D * GN * RN)	0.00071	0.00107	0.00224

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7L	(D * GN * RN)	0.00084	0.00122	0.00248
	(D * GN * RN)	-0.00003	-0.00003	-0.00002
	(D * GN * RN)	0.00002	0.00002	0.00003
	(D * GN * RN)	0.00019	0.00057	0.00184
	(D * !GN * RN)	0.00083	0.00121	0.00248
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00002	0.00002	0.00002
	(D * !GN * RN)	0.00018	0.00057	0.00183
	(!D * GN * RN)	0.00085	0.00122	0.00249
	(!D * GN * RN)	-0.00003	-0.00002	-0.00001
	(!D * GN * RN)	0.00002	0.00002	0.00002
	(!D * GN * RN)	0.00018	0.00057	0.00184

LATLSRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set

Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX1H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX1H7L	0.00155	0.00097	0.00081	0.00079	0.07516	0.07457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX1H7L	0.00000	6.06400	10.65790

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7L	D->Q (RR)	-	0.06496	0.21244	0.55942
	GN->Q (FR)	-	0.08039	0.24396	0.62540
	RN->Q (RR)	(D * !GN)	0.06582	0.21454	0.56244
	SN->Q (FR)	(D * GN * RN)	0.05439	0.20208	0.56357
	SN->Q (FR)	(D * GN * !RN)	0.05614	0.20621	0.57120
	SN->Q (FR)	(D * !GN * !RN)	0.05927	0.21235	0.57890
	SN->Q (FR)	(!D * GN * RN)	0.05414	0.20213	0.56410
	SN->Q (FR)	(!D * GN * !RN)	0.05743	0.20739	0.57254
	SN->Q (FR)	(!D * !GN * RN)	0.05786	0.20878	0.57335
	SN->Q (FR)	(!D * !GN * !RN)	0.05955	0.21001	0.57453

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7L	D->Q (FF)	-	0.07940	0.22483	0.55701
	GN->Q (FF)	-	0.08618	0.22554	0.51713
	RN->Q (FF)	(D * GN)	0.08843	0.23916	0.57887
	RN->Q (FF)	(D * !GN)	0.09385	0.25389	0.61808
	RN->Q (FF)	(!D * GN)	0.07866	0.22823	0.56371
	SN->Q (RF)	(D * GN * !RN)	0.10666	0.21459	0.43488
	SN->Q (RF)	(D * !GN * !RN)	0.11200	0.22721	0.45543
	SN->Q (RF)	(!D * GN * !RN)	0.10691	0.21527	0.43738
	SN->Q (RF)	(!D * !GN * RN)	0.09352	0.20473	0.43075
	SN->Q (RF)	(!D * !GN * !RN)	0.07965	0.18408	0.40592

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7L	D->QN (FR)	-	0.12083	0.27552	0.66682
	GN->QN (FR)	-	0.12711	0.27706	0.64562
	RN->QN (FR)	(D * GN)	0.13102	0.29371	0.70583
	RN->QN (FR)	(D * !GN)	0.13822	0.30307	0.72160
	RN->QN (FR)	(!D * GN)	0.12062	0.28245	0.68979
	SN->QN (RR)	(D * GN * !RN)	0.14935	0.26943	0.56919
	SN->QN (RR)	(D * !GN * !RN)	0.15642	0.27729	0.57720
	SN->QN (RR)	(!D * GN * !RN)	0.14897	0.26978	0.57153
	SN->QN (RR)	(!D * !GN * RN)	0.13497	0.25622	0.55710
	SN->QN (RR)	(!D * !GN * !RN)	0.11596	0.23814	0.54197

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7L	D->QN (RF)	-	0.09836	0.20080	0.43655
	GN->QN (FF)	-	0.11414	0.23312	0.51245
	RN->QN (RF)	(D * !GN)	0.09927	0.20294	0.44059
	SN->QN (FF)	(D * GN * RN)	0.08383	0.19431	0.45908
	SN->QN (FF)	(D * GN * !RN)	0.08579	0.19684	0.46257
	SN->QN (FF)	(D * !GN * !RN)	0.09207	0.20384	0.47105
	SN->QN (FF)	(!D * GN * RN)	0.08371	0.19442	0.45976
	SN->QN (FF)	(!D * GN * !RN)	0.08738	0.19848	0.46473
	SN->QN (FF)	(!D * !GN * RN)	0.08890	0.20004	0.46634
	SN->QN (FF)	(!D * !GN * !RN)	0.08968	0.20062	0.46688

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7L	**D**	**-**	0.00151	0.00169	0.00245
	D	**-**	0.00003	0.00004	0.00006
	D	**-**	-0.00006	-0.00005	-0.00004
	D	**-**	0.00215	0.00233	0.00309
	GN	**-**	0.00249	0.00269	0.00341
	GN	**-**	0.00001	0.00002	0.00003
	GN	**-**	-0.00003	-0.00003	-0.00001
	GN	**-**	0.00216	0.00237	0.00309
	RN	**(D * !GN)**	0.00160	0.00169	0.00210
	RN	**(D * !GN)**	0.00004	0.00005	0.00006
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00008
	RN	**(D * !GN)**	0.00222	0.00231	0.00272
	SN	**(D * GN * RN)**	0.00197	0.00220	0.00285
	SN	**(D * GN * RN)**	0.00001	0.00003	0.00006
	SN	**(D * GN * RN)**	-0.00005	-0.00003	-0.00000
	SN	**(D * GN * RN)**	0.00176	0.00200	0.00267
	SN	**(D * GN * !RN)**	0.00203	0.00227	0.00294
	SN	**(D * GN * !RN)**	0.00004	0.00006	0.00009
	SN	**(D * GN * !RN)**	-0.00006	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00208	0.00231	0.00298
	SN	**(D * !GN * !RN)**	0.00221	0.00242	0.00309
	SN	**(D * !GN * !RN)**	0.00005	0.00007	0.00010
	SN	**(D * !GN * !RN)**	-0.00008	-0.00008	-0.00006
	SN	**(D * !GN * !RN)**	0.00238	0.00261	0.00328
	SN	**(!D * GN * RN)**	0.00197	0.00221	0.00287
	SN	**(!D * GN * RN)**	0.00001	0.00004	0.00006
	SN	**(!D * GN * RN)**	-0.00004	-0.00003	-0.00002
	SN	**(!D * GN * RN)**	0.00184	0.00208	0.00275
	SN	**(!D * GN * !RN)**	0.00202	0.00226	0.00294
	SN	**(!D * GN * !RN)**	0.00007	0.00008	0.00010
	SN	**(!D * GN * !RN)**	-0.00006	-0.00005	-0.00002
	SN	**(!D * GN * !RN)**	0.00208	0.00232	0.00301
	SN	**(!D * !GN * RN)**	0.00215	0.00238	0.00305
	SN	**(!D * !GN * RN)**	0.00005	0.00007	0.00010
	SN	**(!D * !GN * RN)**	-0.00004	-0.00004	-0.00001
	SN	**(!D * !GN * RN)**	0.00221	0.00245	0.00312
	SN	**(!D * !GN * !RN)**	0.00213	0.00237	0.00303
	SN	**(!D * !GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00002
	SN	**(!D * !GN * !RN)**	0.00222	0.00244	0.00310

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7L	**D**	**-**	0.00212	0.00233	0.00326
	D	**-**	-0.00005	-0.00004	-0.00003
	D	**-**	0.00004	0.00005	0.00007
	D	**-**	0.00148	0.00169	0.00262
	GN	**-**	0.00260	0.00282	0.00354
	GN	**-**	-0.00003	-0.00002	-0.00001
	GN	**-**	0.00001	0.00003	0.00003
	GN	**-**	0.00214	0.00236	0.00309
	RN	**(D * GN)**	0.00207	0.00221	0.00288
	RN	**(D * GN)**	-0.00005	-0.00004	-0.00003
	RN	**(D * GN)**	0.00005	0.00006	0.00008
	RN	**(D * GN)**	0.00161	0.00175	0.00242
	RN	**(D * !GN)**	0.00226	0.00242	0.00317
	RN	**(D * !GN)**	-0.00005	-0.00004	-0.00003
	RN	**(D * !GN)**	0.00008	0.00009	0.00010
	RN	**(D * !GN)**	0.00164	0.00180	0.00256
	RN	**(!D * GN)**	0.00189	0.00204	0.00272
	RN	**(!D * GN)**	-0.00005	-0.00003	-0.00001
	RN	**(!D * GN)**	0.00004	0.00005	0.00005
	RN	**(!D * GN)**	0.00152	0.00167	0.00237
	SN	**(D * GN * !RN)**	0.00233	0.00251	0.00315
	SN	**(D * GN * !RN)**	-0.00007	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00004	0.00006	0.00007
	SN	**(D * GN * !RN)**	0.00229	0.00248	0.00311
	SN	**(D * !GN * !RN)**	0.00249	0.00268	0.00332
	SN	**(D * !GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * !GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(D * !GN * !RN)**	0.00230	0.00248	0.00313
	SN	**(!D * GN * !RN)**	0.00251	0.00269	0.00331
	SN	**(!D * GN * !RN)**	-0.00009	-0.00008	-0.00007
	SN	**(!D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(!D * GN * !RN)**	0.00236	0.00254	0.00316
	SN	**(!D * !GN * RN)**	0.00223	0.00241	0.00303
	SN	**(!D * !GN * RN)**	-0.00009	-0.00007	-0.00005
	SN	**(!D * !GN * RN)**	0.00003	0.00004	0.00006
	SN	**(!D * !GN * RN)**	0.00215	0.00234	0.00296
	SN	**(!D * !GN * !RN)**	0.00224	0.00243	0.00302
	SN	**(!D * !GN * !RN)**	-0.00009	-0.00008	-0.00005
	SN	**(!D * !GN * !RN)**	0.00002	0.00004	0.00005
	SN	**(!D * !GN * !RN)**	0.00215	0.00233	0.00295

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7L	**D**	**-**	0.00212	0.00233	0.00326
	D	**-**	-0.00005	-0.00004	-0.00002
	D	**-**	0.00003	0.00005	0.00005
	D	**-**	0.00148	0.00169	0.00262
	GN	**-**	0.00260	0.00282	0.00355
	GN	**-**	-0.00002	-0.00002	-0.00001
	GN	**-**	0.00000	0.00002	0.00005
	GN	**-**	0.00214	0.00237	0.00309
	RN	**(D * GN)**	0.00207	0.00221	0.00289
	RN	**(D * GN)**	-0.00008	-0.00004	-0.00002
	RN	**(D * GN)**	0.00004	0.00007	0.00009
	RN	**(D * GN)**	0.00159	0.00175	0.00242
	RN	**(D * !GN)**	0.00226	0.00242	0.00318
	RN	**(D * !GN)**	-0.00005	-0.00004	-0.00003
	RN	**(D * !GN)**	0.00007	0.00009	0.00010
	RN	**(D * !GN)**	0.00165	0.00180	0.00256
	RN	**(!D * GN)**	0.00189	0.00204	0.00272
	RN	**(!D * GN)**	-0.00005	-0.00003	-0.00001
	RN	**(!D * GN)**	0.00004	0.00005	0.00007
	RN	**(!D * GN)**	0.00153	0.00168	0.00237
	SN	**(D * GN * !RN)**	0.00233	0.00252	0.00315
	SN	**(D * GN * !RN)**	-0.00008	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00004	0.00006	0.00009
	SN	**(D * GN * !RN)**	0.00229	0.00248	0.00311
	SN	**(D * !GN * !RN)**	0.00249	0.00268	0.00333
	SN	**(D * !GN * !RN)**	-0.00007	-0.00007	-0.00006
	SN	**(D * !GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(D * !GN * !RN)**	0.00230	0.00249	0.00313
	SN	**(!D * GN * !RN)**	0.00252	0.00269	0.00332
	SN	**(!D * GN * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(!D * GN * !RN)**	0.00007	0.00007	0.00009
	SN	**(!D * GN * !RN)**	0.00236	0.00254	0.00316
	SN	**(!D * !GN * RN)**	0.00224	0.00242	0.00304
	SN	**(!D * !GN * RN)**	-0.00008	-0.00007	-0.00006
	SN	**(!D * !GN * RN)**	0.00002	0.00004	0.00006
	SN	**(!D * !GN * RN)**	0.00216	0.00234	0.00296
	SN	**(!D * !GN * !RN)**	0.00225	0.00243	0.00303
	SN	**(!D * !GN * !RN)**	-0.00008	-0.00007	-0.00006
	SN	**(!D * !GN * !RN)**	0.00004	0.00004	0.00006
	SN	**(!D * !GN * !RN)**	0.00215	0.00234	0.00296

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7L	**D**	**-**	0.00151	0.00169	0.00244
	D	**-**	0.00003	0.00004	0.00005
	D	**-**	-0.00005	-0.00005	-0.00003
	D	**-**	0.00215	0.00233	0.00308
	GN	**-**	0.00248	0.00269	0.00341
	GN	**-**	0.00002	0.00002	0.00002
	GN	**-**	-0.00004	-0.00002	-0.00000
	GN	**-**	0.00216	0.00237	0.00309
	RN	**(D * !GN)**	0.00160	0.00168	0.00210
	RN	**(D * !GN)**	0.00003	0.00004	0.00005
	RN	**(D * !GN)**	-0.00010	-0.00009	-0.00007
	RN	**(D * !GN)**	0.00222	0.00230	0.00272
	SN	**(D * GN * RN)**	0.00197	0.00220	0.00285
	SN	**(D * GN * RN)**	0.00003	0.00003	0.00004
	SN	**(D * GN * RN)**	-0.00004	-0.00003	-0.00001
	SN	**(D * GN * RN)**	0.00176	0.00200	0.00266
	SN	**(D * GN * !RN)**	0.00204	0.00227	0.00293
	SN	**(D * GN * !RN)**	0.00006	0.00006	0.00008
	SN	**(D * GN * !RN)**	-0.00006	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00207	0.00230	0.00297
	SN	**(D * !GN * !RN)**	0.00221	0.00242	0.00309
	SN	**(D * !GN * !RN)**	0.00006	0.00007	0.00007
	SN	**(D * !GN * !RN)**	-0.00008	-0.00008	-0.00005
	SN	**(D * !GN * !RN)**	0.00239	0.00261	0.00330
	SN	**(!D * GN * RN)**	0.00199	0.00221	0.00287
	SN	**(!D * GN * RN)**	0.00004	0.00004	0.00005
	SN	**(!D * GN * RN)**	-0.00005	-0.00003	-0.00001
	SN	**(!D * GN * RN)**	0.00183	0.00207	0.00276
	SN	**(!D * GN * !RN)**	0.00203	0.00226	0.00292
	SN	**(!D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(!D * GN * !RN)**	-0.00006	-0.00005	-0.00003
	SN	**(!D * GN * !RN)**	0.00208	0.00231	0.00298
	SN	**(!D * !GN * RN)**	0.00215	0.00238	0.00304
	SN	**(!D * !GN * RN)**	0.00006	0.00007	0.00010
	SN	**(!D * !GN * RN)**	-0.00005	-0.00004	-0.00002
	SN	**(!D * !GN * RN)**	0.00222	0.00245	0.00312
	SN	**(!D * !GN * !RN)**	0.00215	0.00236	0.00303
	SN	**(!D * !GN * !RN)**	0.00006	0.00007	0.00008
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00003
	SN	**(!D * !GN * !RN)**	0.00221	0.00243	0.00311

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(GN * RN * SN)	0.00010	0.00047	0.00174
	(GN * RN * SN)	0.00004	0.00005	0.00005
	(GN * RN * SN)	-0.00005	-0.00005	-0.00004
	(GN * RN * SN)	0.00126	0.00163	0.00291
	(GN * RN * !SN)	-0.00003	-0.00002	-0.00002
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * RN * !SN)	0.00001	0.00001	0.00001
	(GN * RN * !SN)	0.00064	0.00065	0.00065
	(GN * !RN * SN)	-0.00042	-0.00038	-0.00034
	(GN * !RN * SN)	0.00000	0.00000	0.00000
	(GN * !RN * SN)	0.00001	0.00002	0.00003
	(GN * !RN * SN)	0.00024	0.00026	0.00028
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * !SN)	0.00000	0.00001	0.00001
	(GN * !RN * !SN)	0.00064	0.00065	0.00066
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00011
	(!GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00058	0.00059	0.00059
	(!GN * !RN * SN)	-0.00057	-0.00057	-0.00056
	(!GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(!GN * !RN * SN)	0.00001	0.00001	0.00002
	(!GN * !RN * SN)	0.00013	0.00014	0.00015
	(!GN * !RN * !SN)	-0.00012	-0.00012	-0.00011
	(!GN * !RN * !SN)	-0.00002	-0.00001	-0.00000
	(!GN * !RN * !SN)	0.00001	0.00001	0.00002
	(!GN * !RN * !SN)	0.00057	0.00057	0.00058

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(GN * RN * SN)	0.00123	0.00166	0.00308
	(GN * RN * SN)	-0.00005	-0.00005	-0.00004
	(GN * RN * SN)	0.00005	0.00005	0.00006
	(GN * RN * SN)	0.00006	0.00049	0.00191
	(GN * RN * !SN)	0.00003	0.00003	0.00004
	(GN * RN * !SN)	0.00002	0.00002	0.00002
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00064	-0.00062	-0.00060
	(GN * !RN * SN)	0.00058	0.00058	0.00059
	(GN * !RN * SN)	0.00000	0.00000	0.00000
	(GN * !RN * SN)	-0.00001	-0.00001	-0.00001
	(GN * !RN * SN)	-0.00017	-0.00017	-0.00016
	(GN * !RN * !SN)	0.00003	0.00003	0.00004
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	-0.00001	-0.00001	0.00000
	(GN * !RN * !SN)	-0.00064	-0.00062	-0.00060
	(!GN * RN * !SN)	0.00011	0.00012	0.00012
	(!GN * RN * !SN)	0.00002	0.00002	0.00002
	(!GN * RN * !SN)	-0.00001	-0.00000	-0.00000
	(!GN * RN * !SN)	-0.00059	-0.00058	-0.00058
	(!GN * !RN * SN)	0.00056	0.00057	0.00058
	(!GN * !RN * SN)	0.00000	0.00000	0.00001
	(!GN * !RN * SN)	-0.00002	-0.00001	-0.00001
	(!GN * !RN * SN)	-0.00013	-0.00012	-0.00012
	(!GN * !RN * !SN)	0.00012	0.00013	0.00014
	(!GN * !RN * !SN)	0.00001	0.00002	0.00003
	(!GN * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(!GN * !RN * !SN)	-0.00057	-0.00055	-0.00052

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7L	**(D * RN * SN)**	0.00119	0.00149	0.00260
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	-0.00000	0.00000	0.00001
	(D * RN * SN)	0.00196	0.00227	0.00338
	(D * RN * !SN)	0.00113	0.00144	0.00254
	(D * RN * !SN)	0.00002	0.00002	0.00002
	(D * RN * !SN)	-0.00000	0.00000	0.00000
	(D * RN * !SN)	0.00194	0.00225	0.00335
	(D * !RN * SN)	0.00136	0.00167	0.00279
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	0.00000	0.00001	0.00002
	(D * !RN * SN)	0.00212	0.00244	0.00356
	(D * !RN * !SN)	0.00113	0.00143	0.00254
	(D * !RN * !SN)	0.00001	0.00001	0.00002
	(D * !RN * !SN)	-0.00000	0.00000	0.00000
	(D * !RN * !SN)	0.00193	0.00224	0.00335
	(!D * RN * SN)	0.00139	0.00170	0.00282
	(!D * RN * SN)	-0.00000	-0.00000	0.00000
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	0.00215	0.00247	0.00359
	(!D * RN * !SN)	0.00114	0.00144	0.00254
	(!D * RN * !SN)	0.00001	0.00001	0.00002
	(!D * RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * RN * !SN)	0.00198	0.00228	0.00337
	(!D * !RN * SN)	0.00138	0.00169	0.00281
	(!D * !RN * SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	0.00213	0.00245	0.00356
	(!D * !RN * !SN)	0.00112	0.00142	0.00253
	(!D * !RN * !SN)	0.00001	0.00001	0.00002
	(!D * !RN * !SN)	0.00000	0.00000	0.00001
	(!D * !RN * !SN)	0.00194	0.00224	0.00334

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7L	**(D * RN * SN)**	0.00206	0.00242	0.00367
	(D * RN * SN)	-0.00001	-0.00000	0.00001
	(D * RN * SN)	-0.00000	0.00000	0.00000
	(D * RN * SN)	0.00129	0.00164	0.00288
	(D * RN * !SN)	0.00212	0.00248	0.00372
	(D * RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * RN * !SN)	0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00130	0.00167	0.00291
	(D * !RN * SN)	0.00184	0.00220	0.00346
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00108	0.00144	0.00269
	(D * !RN * !SN)	0.00211	0.00247	0.00372
	(D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * !SN)	-0.00000	0.00000	0.00000
	(D * !RN * !SN)	0.00131	0.00167	0.00291
	(!D * RN * SN)	0.00183	0.00218	0.00343
	(!D * RN * SN)	-0.00000	0.00000	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	0.00000
	(!D * RN * SN)	0.00106	0.00142	0.00266
	(!D * RN * !SN)	0.00210	0.00246	0.00371
	(!D * RN * !SN)	-0.00002	-0.00001	-0.00001
	(!D * RN * !SN)	0.00000	0.00000	0.00001
	(!D * RN * !SN)	0.00128	0.00164	0.00289
	(!D * !RN * SN)	0.00183	0.00219	0.00344
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SN)	0.00108	0.00144	0.00268
	(!D * !RN * !SN)	0.00211	0.00247	0.00373
	(!D * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * !SN)	0.00131	0.00167	0.00292

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(D * GN * SN)	-0.00015	-0.00014	-0.00014
	(D * GN * SN)	-0.00000	-0.00000	0.00000
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	0.00034	0.00035	0.00035
	(D * GN * !SN)	-0.00009	-0.00009	-0.00009
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	0.00000	0.00000	0.00000
	(D * GN * !SN)	0.00033	0.00034	0.00034
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00001	-0.00001	0.00000
	(D * !GN * !SN)	0.00000	0.00000	0.00001
	(D * !GN * !SN)	0.00033	0.00033	0.00034
	(!D * GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * GN * SN)	-0.00001	-0.00000	-0.00000
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	0.00034	0.00035	0.00035
	(!D * GN * !SN)	-0.00010	-0.00009	-0.00009
	(!D * GN * !SN)	-0.00002	-0.00001	-0.00001
	(!D * GN * !SN)	0.00000	0.00000	0.00000
	(!D * GN * !SN)	0.00033	0.00034	0.00034
	(!D * !GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * !GN * SN)	-0.00000	-0.00000	0.00000
	(!D * !GN * SN)	0.00000	0.00000	0.00001
	(!D * !GN * SN)	0.00034	0.00035	0.00035
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00031	0.00032	0.00032

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(D * GN * SN)	0.00016	0.00017	0.00018
	(D * GN * SN)	0.00000	0.00000	0.00000
	(D * GN * SN)	-0.00001	-0.00000	-0.00000
	(D * GN * SN)	-0.00032	-0.00031	-0.00029
	(D * GN * !SN)	0.00010	0.00010	0.00011
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	-0.00000	-0.00000	0.00000
	(D * GN * !SN)	-0.00033	-0.00033	-0.00032
	(D * !GN * !SN)	0.00010	0.00011	0.00012
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	-0.00000	-0.00000	0.00000
	(D * !GN * !SN)	-0.00033	-0.00033	-0.00032
	(!D * GN * SN)	0.00016	0.00017	0.00018
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	-0.00000	-0.00000	0.00000
	(!D * GN * SN)	-0.00032	-0.00031	-0.00029
	(!D * GN * !SN)	0.00009	0.00010	0.00010
	(!D * GN * !SN)	0.00001	0.00001	0.00002
	(!D * GN * !SN)	-0.00000	-0.00000	-0.00000
	(!D * GN * !SN)	-0.00033	-0.00033	-0.00033
	(!D * !GN * SN)	0.00016	0.00017	0.00018
	(!D * !GN * SN)	0.00000	0.00000	0.00000
	(!D * !GN * SN)	-0.00000	-0.00000	-0.00000
	(!D * !GN * SN)	-0.00033	-0.00032	-0.00030
	(!D * !GN * !SN)	0.00011	0.00012	0.00012
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !GN * !SN)	-0.00031	-0.00030	-0.00029

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(D * GN * RN)	0.00007	0.00042	0.00159
	(D * GN * RN)	0.00002	0.00003	0.00004
	(D * GN * RN)	-0.00002	-0.00002	-0.00001
	(D * GN * RN)	0.00071	0.00106	0.00223
	(D * !GN * RN)	0.00007	0.00042	0.00159
	(D * !GN * RN)	0.00003	0.00003	0.00004
	(D * !GN * RN)	-0.00002	-0.00002	-0.00002
	(D * !GN * RN)	0.00071	0.00106	0.00223
	(!D * GN * RN)	0.00008	0.00043	0.00160
	(!D * GN * RN)	0.00003	0.00003	0.00004
	(!D * GN * RN)	-0.00002	-0.00002	-0.00001
	(!D * GN * RN)	0.00071	0.00107	0.00224

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7L	(D * GN * RN)	0.00084	0.00122	0.00248
	(D * GN * RN)	-0.00003	-0.00003	-0.00002
	(D * GN * RN)	0.00002	0.00002	0.00003
	(D * GN * RN)	0.00019	0.00057	0.00184
	(D * !GN * RN)	0.00083	0.00121	0.00248
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00002	0.00002	0.00002
	(D * !GN * RN)	0.00018	0.00057	0.00184
	(!D * GN * RN)	0.00085	0.00123	0.00249
	(!D * GN * RN)	-0.00003	-0.00003	-0.00003
	(!D * GN * RN)	0.00002	0.00002	0.00002
	(!D * GN * RN)	0.00019	0.00057	0.00184

LATLSRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set

Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX2H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX2H7L	0.00153	0.00098	0.00081	0.00079	0.08687	0.08590

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX2H7L	0.00000	6.36341	11.04290

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7L	D->Q (RR)	-	0.06502	0.21372	0.56201
	GN->Q (FR)	-	0.08270	0.24843	0.63396
	RN->Q (RR)	(D * !GN)	0.06600	0.21589	0.56548
	SN->Q (FR)	(D * GN * RN)	0.05542	0.20390	0.56720
	SN->Q (FR)	(D * GN * !RN)	0.05666	0.20759	0.57388
	SN->Q (FR)	(D * !GN * !RN)	0.05917	0.21328	0.58077
	SN->Q (FR)	(!D * GN * RN)	0.05555	0.20446	0.56779
	SN->Q (FR)	(!D * GN * !RN)	0.05817	0.20893	0.57464
	SN->Q (FR)	(!D * !GN * RN)	0.05758	0.20963	0.57521
	SN->Q (FR)	(!D * !GN * !RN)	0.05953	0.21101	0.57671

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7L	D->Q (FF)	-	0.07947	0.22699	0.56226
	GN->Q (FF)	-	0.08580	0.22745	0.52181
	RN->Q (FF)	(D * GN)	0.08922	0.24244	0.58405
	RN->Q (FF)	(D * !GN)	0.09415	0.25644	0.62397
	RN->Q (FF)	(!D * GN)	0.07917	0.23108	0.56801
	SN->Q (RF)	(D * GN * !RN)	0.10801	0.21818	0.43997
	SN->Q (RF)	(D * !GN * !RN)	0.11278	0.23005	0.46062
	SN->Q (RF)	(!D * GN * !RN)	0.10827	0.21882	0.44264
	SN->Q (RF)	(!D * !GN * RN)	0.09411	0.20718	0.43531
	SN->Q (RF)	(!D * !GN * !RN)	0.08006	0.18614	0.41014

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7L	D->QN (FR)	-	0.12325	0.27845	0.67047
	GN->QN (FR)	-	0.12903	0.27964	0.64821
	RN->QN (FR)	(D * GN)	0.13530	0.29859	0.71188
	RN->QN (FR)	(D * !GN)	0.14114	0.30650	0.72557
	RN->QN (FR)	(!D * GN)	0.12454	0.28689	0.69530
	SN->QN (RR)	(D * GN * !RN)	0.15433	0.27445	0.57327
	SN->QN (RR)	(D * !GN * !RN)	0.15981	0.28090	0.58031
	SN->QN (RR)	(!D * GN * !RN)	0.15388	0.27473	0.57554
	SN->QN (RR)	(!D * !GN * RN)	0.13795	0.25936	0.56038
	SN->QN (RR)	(!D * !GN * !RN)	0.11833	0.24067	0.54360

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7L	D->QN (RF)	-	0.10084	0.20416	0.44155
	GN->QN (FF)	-	0.11887	0.23961	0.52256
	RN->QN (RF)	(D * !GN)	0.10189	0.20641	0.44569
	SN->QN (FF)	(D * GN * RN)	0.08681	0.19786	0.46356
	SN->QN (FF)	(D * GN * !RN)	0.08834	0.19999	0.46642
	SN->QN (FF)	(D * !GN * !RN)	0.09446	0.20676	0.47422
	SN->QN (FF)	(!D * GN * RN)	0.08723	0.19856	0.46492
	SN->QN (FF)	(!D * GN * !RN)	0.09016	0.20185	0.46879
	SN->QN (FF)	(!D * !GN * RN)	0.09112	0.20281	0.46953
	SN->QN (FF)	(!D * !GN * !RN)	0.09195	0.20342	0.47071

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7L	**D**	**-**	0.00158	0.00177	0.00257
	D	**-**	0.00003	0.00005	0.00006
	D	**-**	-0.00005	-0.00005	-0.00003
	D	**-**	0.00223	0.00241	0.00320
	GN	**-**	0.00261	0.00283	0.00360
	GN	**-**	0.00001	0.00002	0.00004
	GN	**-**	-0.00003	-0.00002	-0.00000
	GN	**-**	0.00229	0.00251	0.00327
	RN	**(D * !GN)**	0.00168	0.00177	0.00221
	RN	**(D * !GN)**	0.00004	0.00005	0.00006
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00007
	RN	**(D * !GN)**	0.00229	0.00239	0.00283
	SN	**(D * GN * RN)**	0.00205	0.00228	0.00296
	SN	**(D * GN * RN)**	0.00002	0.00005	0.00007
	SN	**(D * GN * RN)**	-0.00004	-0.00003	0.00000
	SN	**(D * GN * RN)**	0.00187	0.00210	0.00280
	SN	**(D * GN * !RN)**	0.00212	0.00235	0.00303
	SN	**(D * GN * !RN)**	0.00005	0.00008	0.00012
	SN	**(D * GN * !RN)**	-0.00006	-0.00006	-0.00004
	SN	**(D * GN * !RN)**	0.00219	0.00241	0.00309
	SN	**(D * !GN * !RN)**	0.00230	0.00253	0.00319
	SN	**(D * !GN * !RN)**	0.00005	0.00008	0.00011
	SN	**(D * !GN * !RN)**	-0.00008	-0.00007	-0.00004
	SN	**(D * !GN * !RN)**	0.00250	0.00272	0.00339
	SN	**(!D * GN * RN)**	0.00206	0.00230	0.00296
	SN	**(!D * GN * RN)**	0.00003	0.00006	0.00009
	SN	**(!D * GN * RN)**	-0.00006	-0.00003	-0.00003
	SN	**(!D * GN * RN)**	0.00196	0.00219	0.00287
	SN	**(!D * GN * !RN)**	0.00211	0.00235	0.00300
	SN	**(!D * GN * !RN)**	0.00006	0.00010	0.00012
	SN	**(!D * GN * !RN)**	-0.00007	-0.00005	-0.00002
	SN	**(!D * GN * !RN)**	0.00218	0.00242	0.00308
	SN	**(!D * !GN * RN)**	0.00226	0.00249	0.00315
	SN	**(!D * !GN * RN)**	0.00006	0.00009	0.00011
	SN	**(!D * !GN * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * !GN * RN)**	0.00235	0.00256	0.00323
	SN	**(!D * !GN * !RN)**	0.00226	0.00247	0.00313
	SN	**(!D * !GN * !RN)**	0.00005	0.00008	0.00009
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00002
	SN	**(!D * !GN * !RN)**	0.00233	0.00254	0.00322

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7L	**D**	**-**	0.00221	0.00242	0.00341
	D	**-**	-0.00006	-0.00005	-0.00003
	D	**-**	0.00003	0.00005	0.00007
	D	**-**	0.00154	0.00178	0.00277
	GN	**-**	0.00271	0.00294	0.00370
	GN	**-**	-0.00004	-0.00002	-0.00001
	GN	**-**	0.00000	0.00002	0.00003
	GN	**-**	0.00225	0.00248	0.00323
	RN	**(D * GN)**	0.00221	0.00236	0.00310
	RN	**(D * GN)**	-0.00006	-0.00005	-0.00004
	RN	**(D * GN)**	0.00005	0.00007	0.00008
	RN	**(D * GN)**	0.00173	0.00189	0.00263
	RN	**(D * !GN)**	0.00235	0.00252	0.00334
	RN	**(D * !GN)**	-0.00005	-0.00005	-0.00004
	RN	**(D * !GN)**	0.00007	0.00009	0.00010
	RN	**(D * !GN)**	0.00173	0.00190	0.00273
	RN	**(!D * GN)**	0.00203	0.00218	0.00294
	RN	**(!D * GN)**	-0.00006	-0.00004	-0.00003
	RN	**(!D * GN)**	0.00004	0.00005	0.00006
	RN	**(!D * GN)**	0.00165	0.00181	0.00257
	SN	**(D * GN * !RN)**	0.00248	0.00267	0.00333
	SN	**(D * GN * !RN)**	-0.00010	-0.00008	-0.00005
	SN	**(D * GN * !RN)**	0.00004	0.00006	0.00007
	SN	**(D * GN * !RN)**	0.00243	0.00262	0.00327
	SN	**(D * !GN * !RN)**	0.00259	0.00278	0.00345
	SN	**(D * !GN * !RN)**	-0.00010	-0.00008	-0.00005
	SN	**(D * !GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(D * !GN * !RN)**	0.00239	0.00258	0.00325
	SN	**(!D * GN * !RN)**	0.00267	0.00285	0.00350
	SN	**(!D * GN * !RN)**	-0.00012	-0.00009	-0.00006
	SN	**(!D * GN * !RN)**	0.00006	0.00007	0.00008
	SN	**(!D * GN * !RN)**	0.00250	0.00269	0.00333
	SN	**(!D * !GN * RN)**	0.00233	0.00251	0.00315
	SN	**(!D * !GN * RN)**	-0.00009	-0.00008	-0.00006
	SN	**(!D * !GN * RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * RN)**	0.00225	0.00243	0.00307
	SN	**(!D * !GN * !RN)**	0.00233	0.00253	0.00313
	SN	**(!D * !GN * !RN)**	-0.00009	-0.00008	-0.00005
	SN	**(!D * !GN * !RN)**	0.00002	0.00004	0.00006
	SN	**(!D * !GN * !RN)**	0.00223	0.00243	0.00304

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7L	**D**	**-**	0.00221	0.00243	0.00341
	D	**-**	-0.00005	-0.00005	-0.00004
	D	**-**	0.00003	0.00005	0.00008
	D	**-**	0.00157	0.00178	0.00277
	GN	**-**	0.00271	0.00294	0.00370
	GN	**-**	-0.00003	-0.00002	-0.00001
	GN	**-**	0.00000	0.00002	0.00002
	GN	**-**	0.00225	0.00248	0.00323
	RN	**(D * GN)**	0.00221	0.00236	0.00311
	RN	**(D * GN)**	-0.00007	-0.00005	-0.00003
	RN	**(D * GN)**	0.00004	0.00007	0.00009
	RN	**(D * GN)**	0.00174	0.00189	0.00263
	RN	**(D * !GN)**	0.00235	0.00252	0.00335
	RN	**(D * !GN)**	-0.00006	-0.00005	-0.00004
	RN	**(D * !GN)**	0.00007	0.00009	0.00011
	RN	**(D * !GN)**	0.00174	0.00190	0.00273
	RN	**(!D * GN)**	0.00203	0.00218	0.00294
	RN	**(!D * GN)**	-0.00006	-0.00004	-0.00003
	RN	**(!D * GN)**	0.00002	0.00005	0.00005
	RN	**(!D * GN)**	0.00165	0.00181	0.00257
	SN	**(D * GN * !RN)**	0.00248	0.00267	0.00333
	SN	**(D * GN * !RN)**	-0.00009	-0.00008	-0.00005
	SN	**(D * GN * !RN)**	0.00005	0.00006	0.00008
	SN	**(D * GN * !RN)**	0.00243	0.00262	0.00327
	SN	**(D * !GN * !RN)**	0.00259	0.00279	0.00346
	SN	**(D * !GN * !RN)**	-0.00009	-0.00008	-0.00007
	SN	**(D * !GN * !RN)**	0.00005	0.00008	0.00009
	SN	**(D * !GN * !RN)**	0.00239	0.00259	0.00326
	SN	**(!D * GN * !RN)**	0.00267	0.00285	0.00350
	SN	**(!D * GN * !RN)**	-0.00011	-0.00009	-0.00007
	SN	**(!D * GN * !RN)**	0.00004	0.00007	0.00007
	SN	**(!D * GN * !RN)**	0.00250	0.00269	0.00333
	SN	**(!D * !GN * RN)**	0.00233	0.00252	0.00315
	SN	**(!D * !GN * RN)**	-0.00009	-0.00008	-0.00006
	SN	**(!D * !GN * RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * RN)**	0.00225	0.00243	0.00307
	SN	**(!D * !GN * !RN)**	0.00235	0.00253	0.00313
	SN	**(!D * !GN * !RN)**	-0.00009	-0.00009	-0.00006
	SN	**(!D * !GN * !RN)**	0.00004	0.00004	0.00004
	SN	**(!D * !GN * !RN)**	0.00225	0.00243	0.00304

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7L	**D**	**-**	0.00158	0.00177	0.00256
	D	**-**	0.00004	0.00005	0.00006
	D	**-**	-0.00006	-0.00005	-0.00003
	D	**-**	0.00221	0.00241	0.00320
	GN	**-**	0.00261	0.00283	0.00359
	GN	**-**	0.00001	0.00002	0.00003
	GN	**-**	-0.00002	-0.00002	-0.00000
	GN	**-**	0.00229	0.00250	0.00327
	RN	**(D * !GN)**	0.00168	0.00177	0.00221
	RN	**(D * !GN)**	0.00004	0.00005	0.00006
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00007
	RN	**(D * !GN)**	0.00230	0.00238	0.00283
	SN	**(D * GN * RN)**	0.00205	0.00228	0.00294
	SN	**(D * GN * RN)**	0.00003	0.00005	0.00007
	SN	**(D * GN * RN)**	-0.00003	-0.00003	-0.00001
	SN	**(D * GN * RN)**	0.00186	0.00210	0.00277
	SN	**(D * GN * !RN)**	0.00212	0.00235	0.00301
	SN	**(D * GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(D * GN * !RN)**	-0.00007	-0.00006	-0.00005
	SN	**(D * GN * !RN)**	0.00216	0.00240	0.00307
	SN	**(D * !GN * !RN)**	0.00230	0.00253	0.00319
	SN	**(D * !GN * !RN)**	0.00007	0.00008	0.00010
	SN	**(D * !GN * !RN)**	-0.00008	-0.00008	-0.00005
	SN	**(D * !GN * !RN)**	0.00250	0.00272	0.00338
	SN	**(!D * GN * RN)**	0.00208	0.00230	0.00296
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00006
	SN	**(!D * GN * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * GN * RN)**	0.00194	0.00219	0.00287
	SN	**(!D * GN * !RN)**	0.00211	0.00235	0.00301
	SN	**(!D * GN * !RN)**	0.00007	0.00009	0.00011
	SN	**(!D * GN * !RN)**	-0.00007	-0.00005	-0.00004
	SN	**(!D * GN * !RN)**	0.00220	0.00241	0.00310
	SN	**(!D * !GN * RN)**	0.00228	0.00249	0.00315
	SN	**(!D * !GN * RN)**	0.00006	0.00008	0.00009
	SN	**(!D * !GN * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * !GN * RN)**	0.00234	0.00256	0.00324
	SN	**(!D * !GN * !RN)**	0.00224	0.00247	0.00315
	SN	**(!D * !GN * !RN)**	0.00006	0.00009	0.00011
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00003	-0.00001
	SN	**(!D * !GN * !RN)**	0.00231	0.00254	0.00325

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(GN * RN * SN)	0.00010	0.00047	0.00174
	(GN * RN * SN)	0.00005	0.00005	0.00005
	(GN * RN * SN)	-0.00005	-0.00005	-0.00003
	(GN * RN * SN)	0.00126	0.00163	0.00290
	(GN * RN * !SN)	-0.00003	-0.00002	-0.00002
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * RN * !SN)	0.00001	0.00001	0.00001
	(GN * RN * !SN)	0.00063	0.00064	0.00064
	(GN * !RN * SN)	-0.00042	-0.00038	-0.00033
	(GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(GN * !RN * SN)	0.00001	0.00002	0.00003
	(GN * !RN * SN)	0.00024	0.00026	0.00029
	(GN * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * !SN)	-0.00003	-0.00002	-0.00001
	(GN * !RN * !SN)	0.00001	0.00001	0.00002
	(GN * !RN * !SN)	0.00062	0.00064	0.00064
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00011
	(!GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00057	0.00058	0.00058
	(!GN * !RN * SN)	-0.00057	-0.00056	-0.00056
	(!GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(!GN * !RN * SN)	0.00000	0.00002	0.00003
	(!GN * !RN * SN)	0.00012	0.00013	0.00015
	(!GN * !RN * !SN)	-0.00013	-0.00012	-0.00012
	(!GN * !RN * !SN)	-0.00002	-0.00001	-0.00000
	(!GN * !RN * !SN)	0.00001	0.00001	0.00001
	(!GN * !RN * !SN)	0.00057	0.00057	0.00057

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(GN * RN * SN)	0.00126	0.00168	0.00310
	(GN * RN * SN)	-0.00005	-0.00005	-0.00005
	(GN * RN * SN)	0.00004	0.00005	0.00006
	(GN * RN * SN)	0.00010	0.00052	0.00194
	(GN * RN * !SN)	0.00003	0.00003	0.00004
	(GN * RN * !SN)	0.00002	0.00003	0.00003
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00064	-0.00061	-0.00059
	(GN * !RN * SN)	0.00057	0.00058	0.00058
	(GN * !RN * SN)	0.00000	0.00000	0.00001
	(GN * !RN * SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * SN)	-0.00017	-0.00016	-0.00015
	(GN * !RN * !SN)	0.00003	0.00003	0.00004
	(GN * !RN * !SN)	0.00002	0.00002	0.00003
	(GN * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00064	-0.00061	-0.00059
	(!GN * RN * !SN)	0.00011	0.00012	0.00012
	(!GN * RN * !SN)	0.00002	0.00002	0.00003
	(!GN * RN * !SN)	-0.00001	-0.00000	-0.00000
	(!GN * RN * !SN)	-0.00058	-0.00057	-0.00057
	(!GN * !RN * SN)	0.00057	0.00057	0.00057
	(!GN * !RN * SN)	0.00000	0.00000	0.00001
	(!GN * !RN * SN)	-0.00002	-0.00002	-0.00000
	(!GN * !RN * SN)	-0.00013	-0.00013	-0.00012
	(!GN * !RN * !SN)	0.00013	0.00013	0.00014
	(!GN * !RN * !SN)	0.00001	0.00002	0.00002
	(!GN * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!GN * !RN * !SN)	-0.00056	-0.00054	-0.00050

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7L	**(D * RN * SN)**	0.00124	0.00155	0.00269
	(D * RN * SN)	0.00001	0.00001	0.00001
	(D * RN * SN)	0.00000	0.00000	0.00000
	(D * RN * SN)	0.00202	0.00235	0.00349
	(D * RN * !SN)	0.00119	0.00150	0.00263
	(D * RN * !SN)	0.00002	0.00002	0.00002
	(D * RN * !SN)	-0.00000	0.00001	0.00001
	(D * RN * !SN)	0.00200	0.00232	0.00345
	(D * !RN * SN)	0.00147	0.00180	0.00295
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	0.00225	0.00258	0.00372
	(D * !RN * !SN)	0.00118	0.00150	0.00263
	(D * !RN * !SN)	0.00001	0.00002	0.00002
	(D * !RN * !SN)	-0.00001	0.00000	0.00000
	(D * !RN * !SN)	0.00200	0.00231	0.00345
	(!D * RN * SN)	0.00152	0.00184	0.00298
	(!D * RN * SN)	-0.00001	-0.00000	0.00000
	(!D * RN * SN)	0.00001	0.00001	0.00002
	(!D * RN * SN)	0.00228	0.00261	0.00376
	(!D * RN * !SN)	0.00119	0.00151	0.00264
	(!D * RN * !SN)	0.00001	0.00002	0.00002
	(!D * RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * RN * !SN)	0.00205	0.00236	0.00348
	(!D * !RN * SN)	0.00151	0.00183	0.00297
	(!D * !RN * SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * SN)	0.00001	0.00002	0.00003
	(!D * !RN * SN)	0.00227	0.00259	0.00373
	(!D * !RN * !SN)	0.00118	0.00149	0.00262
	(!D * !RN * !SN)	0.00001	0.00002	0.00002
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00200	0.00232	0.00345

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7L	**(D * RN * SN)**	0.00216	0.00253	0.00381
	(D * RN * SN)	-0.00001	-0.00001	0.00001
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	0.00138	0.00174	0.00302
	(D * RN * !SN)	0.00221	0.00259	0.00386
	(D * RN * !SN)	-0.00002	-0.00002	-0.00002
	(D * RN * !SN)	-0.00001	-0.00000	0.00000
	(D * RN * !SN)	0.00139	0.00176	0.00304
	(D * !RN * SN)	0.00190	0.00227	0.00356
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00113	0.00150	0.00278
	(D * !RN * !SN)	0.00221	0.00259	0.00386
	(D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * !SN)	-0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00141	0.00177	0.00305
	(!D * RN * SN)	0.00187	0.00225	0.00352
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * RN * SN)	0.00111	0.00148	0.00275
	(!D * RN * !SN)	0.00219	0.00257	0.00386
	(!D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * RN * !SN)	0.00000	0.00000	0.00001
	(!D * RN * !SN)	0.00136	0.00173	0.00302
	(!D * !RN * SN)	0.00188	0.00225	0.00353
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	-0.00002	-0.00002	-0.00001
	(!D * !RN * SN)	0.00113	0.00150	0.00277
	(!D * !RN * !SN)	0.00221	0.00259	0.00387
	(!D * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SN)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SN)	0.00140	0.00177	0.00305

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(D * GN * SN)	-0.00015	-0.00014	-0.00013
	(D * GN * SN)	-0.00000	-0.00000	-0.00000
	(D * GN * SN)	-0.00000	0.00000	0.00001
	(D * GN * SN)	0.00035	0.00035	0.00035
	(D * GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * GN * !SN)	-0.00001	-0.00001	0.00000
	(D * GN * !SN)	0.00000	0.00000	0.00001
	(D * GN * !SN)	0.00033	0.00034	0.00034
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(D * !GN * !SN)	0.00000	0.00000	0.00001
	(D * !GN * !SN)	0.00032	0.00033	0.00033
	(!D * GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * GN * SN)	-0.00000	-0.00000	0.00000
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	0.00035	0.00035	0.00035
	(!D * GN * !SN)	-0.00010	-0.00010	-0.00009
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * !SN)	0.00000	0.00000	0.00001
	(!D * GN * !SN)	0.00033	0.00034	0.00034
	(!D * !GN * SN)	-0.00014	-0.00014	-0.00014
	(!D * !GN * SN)	-0.00000	-0.00000	0.00000
	(!D * !GN * SN)	0.00000	0.00001	0.00001
	(!D * !GN * SN)	0.00034	0.00035	0.00035
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00010
	(!D * !GN * !SN)	-0.00001	-0.00001	0.00000
	(!D * !GN * !SN)	0.00000	0.00001	0.00001
	(!D * !GN * !SN)	0.00031	0.00032	0.00032

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(D * GN * SN)	0.00016	0.00017	0.00018
	(D * GN * SN)	0.00000	0.00000	0.00000
	(D * GN * SN)	-0.00001	-0.00000	0.00000
	(D * GN * SN)	-0.00032	-0.00031	-0.00029
	(D * GN * !SN)	0.00010	0.00011	0.00012
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	-0.00000	-0.00000	0.00000
	(D * GN * !SN)	-0.00033	-0.00033	-0.00033
	(D * !GN * !SN)	0.00011	0.00011	0.00011
	(D * !GN * !SN)	0.00001	0.00001	0.00002
	(D * !GN * !SN)	-0.00001	-0.00000	-0.00000
	(D * !GN * !SN)	-0.00033	-0.00032	-0.00031
	(!D * GN * SN)	0.00016	0.00017	0.00019
	(!D * GN * SN)	-0.00000	0.00000	0.00000
	(!D * GN * SN)	-0.00001	-0.00000	-0.00000
	(!D * GN * SN)	-0.00033	-0.00031	-0.00030
	(!D * GN * !SN)	0.00010	0.00011	0.00011
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	-0.00000	-0.00000	-0.00000
	(!D * GN * !SN)	-0.00033	-0.00033	-0.00033
	(!D * !GN * SN)	0.00016	0.00017	0.00018
	(!D * !GN * SN)	0.00000	0.00000	0.00000
	(!D * !GN * SN)	-0.00000	-0.00000	-0.00000
	(!D * !GN * SN)	-0.00033	-0.00032	-0.00030
	(!D * !GN * !SN)	0.00012	0.00012	0.00013
	(!D * !GN * !SN)	0.00000	0.00001	0.00001
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !GN * !SN)	-0.00031	-0.00030	-0.00028

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(D * GN * RN)	0.00007	0.00042	0.00159
	(D * GN * RN)	0.00003	0.00003	0.00004
	(D * GN * RN)	-0.00002	-0.00002	-0.00001
	(D * GN * RN)	0.00071	0.00106	0.00223
	(D * !GN * RN)	0.00007	0.00042	0.00159
	(D * !GN * RN)	0.00003	0.00003	0.00004
	(D * !GN * RN)	-0.00002	-0.00002	-0.00001
	(D * !GN * RN)	0.00071	0.00106	0.00223
	(!D * GN * RN)	0.00008	0.00044	0.00160
	(!D * GN * RN)	0.00002	0.00003	0.00003
	(!D * GN * RN)	-0.00002	-0.00002	-0.00001
	(!D * GN * RN)	0.00071	0.00107	0.00224

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7L	(D * GN * RN)	0.00084	0.00122	0.00248
	(D * GN * RN)	-0.00004	-0.00003	-0.00003
	(D * GN * RN)	0.00002	0.00002	0.00002
	(D * GN * RN)	0.00018	0.00057	0.00184
	(D * !GN * RN)	0.00083	0.00121	0.00248
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00002	0.00002	0.00002
	(D * !GN * RN)	0.00018	0.00057	0.00184
	(!D * GN * RN)	0.00084	0.00122	0.00249
	(!D * GN * RN)	-0.00003	-0.00003	-0.00002
	(!D * GN * RN)	0.00002	0.00002	0.00002
	(!D * GN * RN)	0.00019	0.00058	0.00184

LATLSX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX0P5H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX0P5H7L	0.00109	0.00089	0.00092	0.06278	0.06350

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX0P5H7L	0.00000	5.95720	7.42553

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7L	D->Q (RR)	-	0.04777	0.18876	0.52504
	GN->Q (FR)	SN	0.06790	0.22313	0.59368
	SN->Q (FR)	-	0.05979	0.20963	0.57368

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7L	D->Q (FF)	-	0.07272	0.21217	0.53252
	GN->Q (FF)	SN	0.08350	0.21416	0.49166
	SN->Q (RF)	-	0.08972	0.19887	0.42328

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7L	D->QN (FR)	-	0.10877	0.26299	0.65159
	GN->QN (FR)	SN	0.11956	0.26616	0.62933
	SN->QN (RR)	-	0.12579	0.25060	0.55928

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7L	D->QN (RF)	-	0.07473	0.17599	0.40901
	GN->QN (FF)	SN	0.09545	0.21139	0.48671
	SN->QN (FF)	-	0.08480	0.19823	0.46858

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7L	hold	GN (R)	-0.06967	-0.03473	-0.01452
	setup	GN (R)	0.03013	0.06404	0.11981

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7L	hold	GN (R)	-0.15377	-0.06108	-0.00964
	setup	GN (R)	0.04513	0.09476	0.19837

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX0P5H7L	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7L	recovery	GN (R)	0.05743	0.07985	0.10647
	removal	GN (R)	-0.07913	-0.05210	-0.02645

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7L	D	-	0.00118	0.00136	0.00196
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00164	0.00181	0.00242
	GN	SN	0.00207	0.00231	0.00303
	GN	SN	0.00000	0.00001	0.00002
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00181	0.00203	0.00277
	SN	-	0.00196	0.00217	0.00280
	SN	-	0.00004	0.00004	0.00006
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00182	0.00203	0.00266

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7L	D	-	0.00180	0.00198	0.00272
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00004	0.00005
	D	-	0.00135	0.00153	0.00227
	GN	SN	0.00239	0.00262	0.00334
	GN	SN	-0.00002	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00003
	GN	SN	0.00205	0.00227	0.00300
	SN	-	0.00193	0.00209	0.00265
	SN	-	-0.00005	-0.00004	-0.00004
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00207	0.00222	0.00278

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7L	D	-	0.00181	0.00198	0.00273
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00003	0.00004	0.00005
	D	-	0.00135	0.00153	0.00228
	GN	SN	0.00239	0.00262	0.00335
	GN	SN	-0.00002	-0.00001	-0.00001
	GN	SN	0.00002	0.00002	0.00003
	GN	SN	0.00205	0.00228	0.00302
	SN	-	0.00193	0.00209	0.00265
	SN	-	-0.00005	-0.00004	-0.00002
	SN	-	0.00002	0.00003	0.00003
	SN	-	0.00207	0.00223	0.00279

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7L	D	-	0.00118	0.00136	0.00196
	D	-	0.00003	0.00003	0.00004
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00164	0.00181	0.00242
	GN	SN	0.00207	0.00230	0.00303
	GN	SN	0.00001	0.00001	0.00002
	GN	SN	-0.00003	-0.00002	-0.00002
	GN	SN	0.00180	0.00203	0.00277
	SN	-	0.00197	0.00217	0.00280
	SN	-	0.00002	0.00004	0.00006
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00182	0.00202	0.00267

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00003	0.00035	0.00142
	0.00005	0.00005	0.00005
	-0.00005	-0.00004	-0.00003
	0.00089	0.00121	0.00228

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00073	0.00109	0.00224
	-0.00005	-0.00005	-0.00005
	0.00003	0.00004	0.00005
	-0.00012	0.00023	0.00138

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00092	0.00126	0.00243
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00153	0.00187	0.00304

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00177	0.00215	0.00345
	0.00000	0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00115	0.00153	0.00283

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00014	0.00045	0.00153
	0.00003	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	0.00094	0.00125	0.00233

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7L	0.00122	0.00156	0.00273
	-0.00004	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00043	0.00076	0.00194

LATLSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX1H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX1H7L	0.00109	0.00089	0.00092	0.07438	0.07441

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX1H7L	0.00000	6.14289	7.61125

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7L	D->Q (RR)	-	0.04708	0.18903	0.52654
	GN->Q (FR)	SN	0.06721	0.22325	0.59490
	SN->Q (FR)	-	0.05896	0.20939	0.57395

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7L	D->Q (FF)	-	0.07243	0.21361	0.53644
	GN->Q (FF)	SN	0.08311	0.21535	0.49476
	SN->Q (RF)	-	0.08942	0.20013	0.42672

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7L	D->QN (FR)	-	0.11037	0.26370	0.65010
	GN->QN (FR)	SN	0.12108	0.26651	0.62653
	SN->QN (RR)	-	0.12737	0.25102	0.55698

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7L	D->QN (RF)	-	0.07574	0.17719	0.40986
	GN->QN (FF)	SN	0.09648	0.21237	0.48686
	SN->QN (FF)	-	0.08539	0.19881	0.46866

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7L	hold	GN (R)	-0.06988	-0.03497	-0.01426
	setup	GN (R)	0.03013	0.06517	0.12269

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7L	hold	GN (R)	-0.15777	-0.06181	-0.00962
	setup	GN (R)	0.04607	0.09684	0.20214

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX1H7L	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7L	recovery	GN (R)	0.05766	0.08175	0.10675
	removal	GN (R)	-0.07962	-0.05280	-0.02668

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7L	D	-	0.00125	0.00143	0.00207
	D	-	0.00003	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00170	0.00188	0.00252
	GN	SN	0.00214	0.00237	0.00310
	GN	SN	0.00000	0.00001	0.00003
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00187	0.00210	0.00285
	SN	-	0.00202	0.00224	0.00287
	SN	-	0.00001	0.00004	0.00007
	SN	-	-0.00003	-0.00002	0.00000
	SN	-	0.00188	0.00209	0.00273

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7L	D	-	0.00186	0.00205	0.00284
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00004	0.00005
	D	-	0.00141	0.00159	0.00239
	GN	SN	0.00245	0.00268	0.00341
	GN	SN	-0.00002	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00004
	GN	SN	0.00210	0.00233	0.00306
	SN	-	0.00198	0.00215	0.00272
	SN	-	-0.00005	-0.00004	-0.00001
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00213	0.00229	0.00286

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7L	D	-	0.00186	0.00205	0.00284
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00004	0.00005
	D	-	0.00141	0.00160	0.00239
	GN	SN	0.00245	0.00268	0.00341
	GN	SN	-0.00001	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00003
	GN	SN	0.00211	0.00234	0.00307
	SN	-	0.00198	0.00215	0.00272
	SN	-	-0.00005	-0.00004	-0.00002
	SN	-	0.00002	0.00003	0.00005
	SN	-	0.00212	0.00229	0.00286

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7L	D	-	0.00125	0.00143	0.00207
	D	-	0.00003	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00170	0.00188	0.00252
	GN	SN	0.00214	0.00237	0.00309
	GN	SN	0.00000	0.00001	0.00001
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00187	0.00210	0.00282
	SN	-	0.00203	0.00224	0.00287
	SN	-	0.00002	0.00004	0.00005
	SN	-	-0.00003	-0.00003	-0.00002
	SN	-	0.00188	0.00209	0.00274

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00003	0.00035	0.00142
	0.00005	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00089	0.00121	0.00228

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00073	0.00109	0.00224
	-0.00005	-0.00005	-0.00005
	0.00003	0.00004	0.00004
	-0.00012	0.00023	0.00138

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00094	0.00127	0.00244
	0.00001	0.00001	0.00002
	-0.00000	-0.00000	0.00000
	0.00157	0.00190	0.00306

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00177	0.00215	0.00345
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00115	0.00153	0.00283

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00014	0.00045	0.00153
	0.00003	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	0.00094	0.00125	0.00233

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7L	0.00122	0.00156	0.00273
	-0.00004	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00043	0.00076	0.00194

LATLSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX2H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX2H7L	0.00109	0.00090	0.00092	0.08585	0.08608

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX2H7L	0.00000	6.44964	7.96448

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7L	D->Q (RR)	-	0.04650	0.18916	0.52764
	GN->Q (FR)	SN	0.06724	0.22434	0.59770
	SN->Q (FR)	-	0.05827	0.20914	0.57405

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7L	D->Q (FF)	-	0.07213	0.21448	0.53889
	GN->Q (FF)	SN	0.08262	0.21624	0.49697
	SN->Q (RF)	-	0.08907	0.20089	0.42840

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7L	D->QN (FR)	-	0.11169	0.26539	0.65294
	GN->QN (FR)	SN	0.12228	0.26820	0.62915
	SN->QN (RR)	-	0.12865	0.25256	0.55906

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7L	D->QN (RF)	-	0.07664	0.17886	0.41310
	GN->QN (FF)	SN	0.09791	0.21491	0.49172
	SN->QN (FF)	-	0.08597	0.20003	0.47080

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7L	hold	GN (R)	-0.06988	-0.03494	-0.01273
	setup	GN (R)	0.02883	0.06543	0.12065

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7L	hold	GN (R)	-0.15641	-0.06189	-0.00997
	setup	GN (R)	0.04578	0.09906	0.20487

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX2H7L	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7L	recovery	GN (R)	0.06121	0.08355	0.10733
	removal	GN (R)	-0.08202	-0.05317	-0.02910

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7L	D	-	0.00130	0.00149	0.00216
	D	-	0.00002	0.00003	0.00005
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00176	0.00194	0.00261
	GN	SN	0.00221	0.00246	0.00321
	GN	SN	0.00000	0.00001	0.00004
	GN	SN	-0.00003	-0.00002	-0.00000
	GN	SN	0.00194	0.00219	0.00298
	SN	-	0.00207	0.00230	0.00293
	SN	-	0.00002	0.00004	0.00006
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00193	0.00215	0.00279

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7L	D	-	0.00193	0.00212	0.00296
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00003	0.00004	0.00005
	D	-	0.00148	0.00166	0.00251
	GN	SN	0.00252	0.00277	0.00352
	GN	SN	-0.00002	-0.00001	0.00000
	GN	SN	0.00000	0.00002	0.00003
	GN	SN	0.00218	0.00242	0.00318
	SN	-	0.00205	0.00222	0.00280
	SN	-	-0.00005	-0.00004	-0.00002
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00219	0.00236	0.00294

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7L	D	-	0.00193	0.00212	0.00296
	D	-	-0.00004	-0.00003	-0.00001
	D	-	0.00003	0.00004	0.00006
	D	-	0.00148	0.00167	0.00251
	GN	SN	0.00253	0.00277	0.00352
	GN	SN	-0.00002	-0.00001	0.00001
	GN	SN	0.00000	0.00002	0.00003
	GN	SN	0.00219	0.00242	0.00318
	SN	-	0.00205	0.00222	0.00280
	SN	-	-0.00004	-0.00004	-0.00002
	SN	-	0.00002	0.00003	0.00004
	SN	-	0.00219	0.00236	0.00294

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7L	D	-	0.00131	0.00148	0.00216
	D	-	0.00002	0.00003	0.00004
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00175	0.00194	0.00261
	GN	SN	0.00220	0.00246	0.00320
	GN	SN	0.00000	0.00001	0.00002
	GN	SN	-0.00003	-0.00002	-0.00000
	GN	SN	0.00193	0.00218	0.00293
	SN	-	0.00209	0.00230	0.00292
	SN	-	0.00002	0.00004	0.00004
	SN	-	-0.00003	-0.00003	-0.00002
	SN	-	0.00192	0.00215	0.00278

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00003	0.00035	0.00142
	0.00005	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00089	0.00121	0.00228

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00073	0.00109	0.00224
	-0.00005	-0.00005	-0.00005
	0.00003	0.00004	0.00004
	-0.00012	0.00023	0.00138

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00100	0.00134	0.00253
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00163	0.00197	0.00316

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00181	0.00221	0.00355
	-0.00000	-0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00119	0.00159	0.00292

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00015	0.00045	0.00153
	0.00003	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	0.00093	0.00124	0.00233

Passive power(pJ) for SN falling :

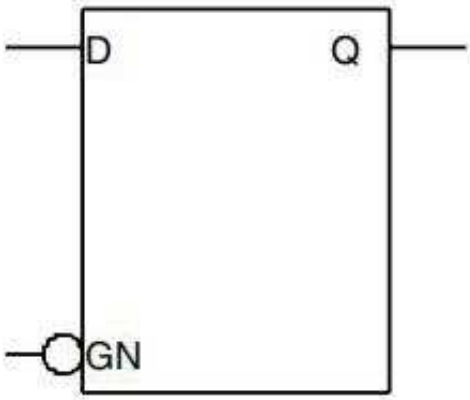
Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7L	0.00122	0.00156	0.00273
	-0.00004	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00043	0.00077	0.00194

LATLX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX0P5H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX0P5H7L	0.00075	0.00096	0.06291	0.06364

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX0P5H7L	0.00000	4.45871	5.19671

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7L	D->Q (RR)	!GN	0.04404	0.18012	0.51005
	GN->Q (FR)	-	0.06611	0.21962	0.59117

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7L	D->Q (FF)	!GN	0.05566	0.18147	0.48121
	GN->Q (FF)	-	0.08331	0.20296	0.47083

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7L	D->QN (FR)	!GN	0.08147	0.23065	0.60889
	GN->QN (FR)	-	0.10930	0.25354	0.61400

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7L	D->QN (RF)	!GN	0.06471	0.16198	0.39066
	GN->QN (FF)	-	0.08713	0.20239	0.47876

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7L	hold	GN (R)	-0.07236	-0.03278	-0.01139
	setup	GN (R)	0.02496	0.05847	0.12415

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7L	hold	GN (R)	-0.12596	-0.03722	0.01045
	setup	GN (R)	0.00637	0.05854	0.16150

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7L	D	!GN	0.00101	0.00115	0.00157
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00136	0.00147	0.00190
	GN	-	0.00193	0.00217	0.00292
	GN	-	0.00000	0.00003	0.00005
	GN	-	-0.00003	-0.00002	-0.00002
	GN	-	0.00165	0.00189	0.00267

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7L	D	!GN	0.00135	0.00147	0.00198
	D	!GN	-0.00005	-0.00003	-0.00002
	D	!GN	0.00001	0.00003	0.00004
	D	!GN	0.00100	0.00115	0.00166
	GN	-	0.00204	0.00225	0.00292
	GN	-	-0.00002	-0.00002	-0.00000
	GN	-	0.00002	0.00003	0.00004
	GN	-	0.00162	0.00183	0.00251

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7L	D	!GN	0.00134	0.00148	0.00198
	D	!GN	-0.00003	-0.00002	-0.00001
	D	!GN	0.00001	0.00003	0.00005
	D	!GN	0.00101	0.00115	0.00166
	GN	-	0.00204	0.00225	0.00293
	GN	-	-0.00003	-0.00002	-0.00001
	GN	-	0.00001	0.00003	0.00005
	GN	-	0.00163	0.00183	0.00252

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7L	D	!GN	0.00103	0.00115	0.00157
	D	!GN	0.00002	0.00003	0.00003
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00136	0.00147	0.00190
	GN	-	0.00193	0.00217	0.00292
	GN	-	0.00003	0.00003	0.00005
	GN	-	-0.00003	-0.00002	-0.00001
	GN	-	0.00164	0.00189	0.00264

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7L	-0.00018	-0.00017	-0.00015
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00027	0.00028	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7L	0.00019	0.00019	0.00019
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00026	-0.00026	-0.00025

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7L	0.00097	0.00130	0.00249
	-0.00001	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00169	0.00202	0.00322

Passive power(pJ) for GN falling :

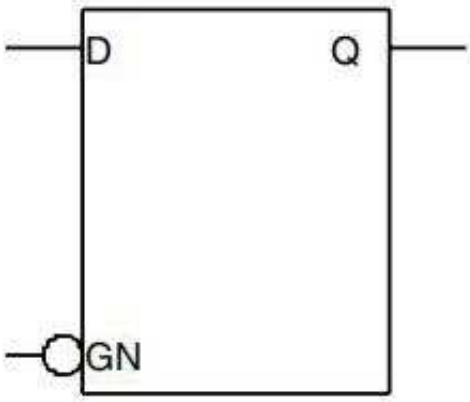
Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7L	0.00169	0.00208	0.00341
	0.00001	0.00001	0.00001
	-0.00000	0.00000	0.00000
	0.00102	0.00141	0.00273

LATLX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX1H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX1H7L	0.00074	0.00096	0.07458	0.07532

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX1H7L	0.00000	4.64440	5.38241

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7L	D->Q (RR)	!GN	0.04537	0.18300	0.51533
	GN->Q (FR)	-	0.06766	0.22200	0.59422

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7L	D->Q (FF)	!GN	0.05782	0.18585	0.48920
	GN->Q (FF)	-	0.08507	0.20621	0.47570

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7L	D->QN (FR)	!GN	0.08448	0.23407	0.61369
	GN->QN (FR)	-	0.11192	0.25580	0.61559

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7L	D->QN (RF)	!GN	0.06680	0.16544	0.39690
	GN->QN (FF)	-	0.08942	0.20534	0.48329

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7L	hold	GN (R)	-0.07469	-0.03475	-0.01330
	setup	GN (R)	0.02676	0.06138	0.12582

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7L	hold	GN (R)	-0.13132	-0.04029	0.00595
	setup	GN (R)	0.01094	0.06330	0.16910

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7L	D	!GN	0.00112	0.00124	0.00169
	D	!GN	0.00000	0.00002	0.00003
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00144	0.00156	0.00201
	GN	-	0.00202	0.00225	0.00301
	GN	-	0.00002	0.00003	0.00003
	GN	-	-0.00003	-0.00002	-0.00001
	GN	-	0.00174	0.00197	0.00274

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7L	D	!GN	0.00143	0.00157	0.00212
	D	!GN	-0.00003	-0.00002	-0.00000
	D	!GN	0.00001	0.00003	0.00005
	D	!GN	0.00111	0.00124	0.00179
	GN	-	0.00213	0.00233	0.00302
	GN	-	-0.00003	-0.00002	-0.00002
	GN	-	0.00001	0.00003	0.00003
	GN	-	0.00172	0.00192	0.00262

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7L	D	!GN	0.00144	0.00157	0.00212
	D	!GN	-0.00003	-0.00002	-0.00001
	D	!GN	0.00003	0.00003	0.00003
	D	!GN	0.00112	0.00125	0.00179
	GN	-	0.00213	0.00234	0.00303
	GN	-	-0.00003	-0.00002	-0.00000
	GN	-	0.00003	0.00003	0.00005
	GN	-	0.00170	0.00192	0.00262

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7L	D	!GN	0.00111	0.00123	0.00169
	D	!GN	0.00001	0.00002	0.00003
	D	!GN	-0.00003	-0.00003	-0.00003
	D	!GN	0.00144	0.00156	0.00201
	GN	-	0.00202	0.00225	0.00301
	GN	-	0.00003	0.00003	0.00003
	GN	-	-0.00002	-0.00003	-0.00002
	GN	-	0.00174	0.00197	0.00273

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7L	-0.00018	-0.00017	-0.00016
	-0.00001	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00027	0.00027	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7L	0.00019	0.00019	0.00019
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00000
	-0.00026	-0.00025	-0.00025

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7L	0.00096	0.00130	0.00250
	-0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00168	0.00202	0.00321

Passive power(pJ) for GN falling :

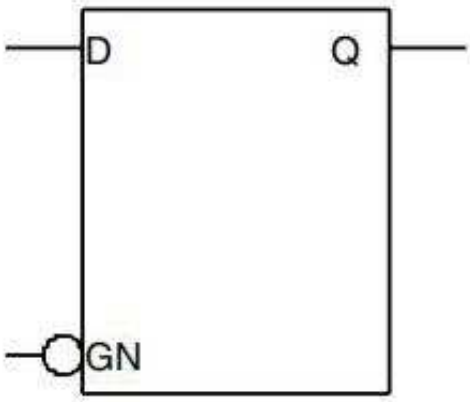
Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7L	0.00169	0.00208	0.00340
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00102	0.00140	0.00272

LATLX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX2H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX2H7L	0.00073	0.00097	0.08595	0.08691

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX2H7L	0.00000	4.84668	5.58470

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7L	D->Q (RR)	!GN	0.04495	0.18281	0.51516
	GN->Q (FR)	-	0.06759	0.22225	0.59485

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7L	D->Q (FF)	!GN	0.05751	0.18618	0.49026
	GN->Q (FF)	-	0.08463	0.20639	0.47656

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7L	D->QN (FR)	!GN	0.08527	0.23478	0.61480
	GN->QN (FR)	-	0.11256	0.25622	0.61596

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7L	D->QN (RF)	!GN	0.06753	0.16659	0.39908
	GN->QN (FF)	-	0.09056	0.20695	0.48614

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7L	hold	GN (R)	-0.07506	-0.03514	-0.01329
	setup	GN (R)	0.02676	0.06219	0.13004

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7L	hold	GN (R)	-0.13348	-0.04041	0.00693
	setup	GN (R)	0.00870	0.06529	0.17297

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7L	D	!GN	0.00119	0.00133	0.00180
	D	!GN	0.00000	0.00003	0.00005
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00151	0.00164	0.00212
	GN	-	0.00211	0.00234	0.00311
	GN	-	0.00000	0.00003	0.00003
	GN	-	-0.00003	-0.00002	-0.00001
	GN	-	0.00183	0.00207	0.00285

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7L	D	!GN	0.00144	0.00159	0.00217
	D	!GN	-0.00003	-0.00002	-0.00000
	D	!GN	0.00001	0.00003	0.00005
	D	!GN	0.00112	0.00126	0.00185
	GN	-	0.00216	0.00236	0.00304
	GN	-	-0.00003	-0.00002	-0.00000
	GN	-	0.00001	0.00003	0.00004
	GN	-	0.00175	0.00196	0.00264

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7L	D	!GN	0.00145	0.00159	0.00217
	D	!GN	-0.00003	-0.00003	-0.00002
	D	!GN	0.00003	0.00003	0.00003
	D	!GN	0.00113	0.00127	0.00185
	GN	-	0.00216	0.00236	0.00304
	GN	-	-0.00002	-0.00002	0.00001
	GN	-	0.00003	0.00003	0.00003
	GN	-	0.00175	0.00196	0.00264

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7L	D	!GN	0.00119	0.00132	0.00180
	D	!GN	0.00002	0.00003	0.00004
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00151	0.00164	0.00212
	GN	-	0.00211	0.00234	0.00311
	GN	-	0.00002	0.00003	0.00004
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00183	0.00206	0.00283

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7L	-0.00018	-0.00018	-0.00016
	-0.00001	-0.00001	-0.00000
	0.00001	0.00001	0.00001
	0.00025	0.00026	0.00027

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7L	0.00020	0.00020	0.00020
	0.00000	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00024	-0.00024	-0.00023

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7L	0.00099	0.00133	0.00252
	-0.00001	-0.00000	0.00000
	-0.00000	0.00000	0.00000
	0.00170	0.00203	0.00323

Passive power(pJ) for GN falling :

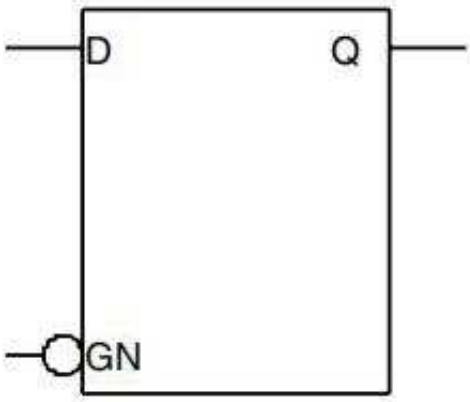
Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7L	0.00172	0.00210	0.00342
	0.00001	0.00001	0.00001
	-0.00000	0.00000	0.00000
	0.00106	0.00144	0.00276

LATLX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX3H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX3H7L	0.00083	0.00096	0.13355	0.13458

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX3H7L	0.00000	6.21960	7.09453

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7L	D->Q (RR)	!GN	0.04296	0.18312	0.51935
	GN->Q (FR)	-	0.06672	0.22406	0.60062

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7L	D->Q (FF)	!GN	0.05576	0.18739	0.49576
	GN->Q (FF)	-	0.08214	0.20718	0.48179

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7L	D->QN (FR)	!GN	0.09005	0.24066	0.62306
	GN->QN (FR)	-	0.11657	0.26120	0.62310

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7L	D->QN (RF)	!GN	0.07183	0.17327	0.41028
	GN->QN (FF)	-	0.09595	0.21474	0.49748

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7L	hold	GN (R)	-0.07422	-0.03547	-0.01296
	setup	GN (R)	0.02848	0.06498	0.13149

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7L	hold	GN (R)	-0.13532	-0.03954	0.00948
	setup	GN (R)	0.01290	0.06879	0.17683

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX3H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7L	D	!GN	0.00146	0.00160	0.00228
	D	!GN	0.00000	0.00003	0.00006
	D	!GN	-0.00004	-0.00003	0.00001
	D	!GN	0.00179	0.00197	0.00265
	GN	-	0.00241	0.00266	0.00353
	GN	-	0.00000	0.00004	0.00007
	GN	-	-0.00003	-0.00003	0.00001
	GN	-	0.00215	0.00240	0.00327

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7L	D	!GN	0.00181	0.00197	0.00278
	D	!GN	-0.00004	-0.00003	0.00000
	D	!GN	0.00001	0.00003	0.00005
	D	!GN	0.00143	0.00160	0.00242
	GN	-	0.00252	0.00273	0.00344
	GN	-	-0.00002	-0.00002	0.00000
	GN	-	0.00001	0.00003	0.00005
	GN	-	0.00210	0.00232	0.00303

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7L	D	!GN	0.00181	0.00197	0.00279
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00003	0.00003	0.00003
	D	!GN	0.00144	0.00160	0.00242
	GN	-	0.00251	0.00274	0.00345
	GN	-	-0.00002	-0.00002	0.00001
	GN	-	0.00003	0.00003	0.00003
	GN	-	0.00210	0.00232	0.00307

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7L	D	!GN	0.00146	0.00160	0.00228
	D	!GN	0.00001	0.00003	0.00005
	D	!GN	-0.00003	-0.00003	-0.00003
	D	!GN	0.00183	0.00197	0.00265
	GN	-	0.00240	0.00266	0.00353
	GN	-	0.00002	0.00004	0.00005
	GN	-	-0.00003	-0.00003	-0.00001
	GN	-	0.00215	0.00240	0.00326

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7L	-0.00020	-0.00019	-0.00017
	-0.00001	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00029	0.00029	0.00031

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7L	0.00022	0.00022	0.00022
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	0.00000
	-0.00027	-0.00027	-0.00027

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7L	0.00102	0.00137	0.00259
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00174	0.00208	0.00330

Passive power(pJ) for GN falling :

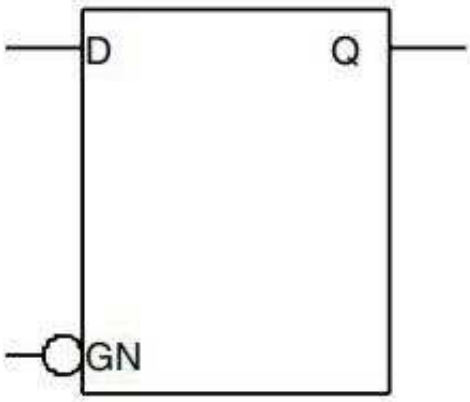
Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7L	0.00182	0.00221	0.00356
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00116	0.00155	0.00290

LATLX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX4H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX4H7L	0.00083	0.00097	0.17133	0.17324

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX4H7L	0.00000	6.90594	7.78091

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7L	D->Q (RR)	!GN	0.04329	0.18414	0.52028
	GN->Q (FR)	-	0.06675	0.22407	0.59893

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7L	D->Q (FF)	!GN	0.05683	0.18902	0.49684
	GN->Q (FF)	-	0.08294	0.20793	0.48062

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7L	D->QN (FR)	!GN	0.09549	0.24597	0.62870
	GN->QN (FR)	-	0.12175	0.26539	0.62558

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7L	D->QN (RF)	!GN	0.07604	0.17789	0.41457
	GN->QN (FF)	-	0.09985	0.21819	0.49929

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7L	hold	GN (R)	-0.08104	-0.03730	-0.01398
	setup	GN (R)	0.03325	0.06882	0.13366

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7L	hold	GN (R)	-0.13668	-0.04165	0.00779
	setup	GN (R)	0.01654	0.07492	0.18587

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX4H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7L	D	!GN	0.00167	0.00182	0.00264
	D	!GN	0.00002	0.00003	0.00006
	D	!GN	-0.00005	-0.00003	-0.00001
	D	!GN	0.00203	0.00219	0.00301
	GN	-	0.00260	0.00286	0.00379
	GN	-	0.00000	0.00003	0.00006
	GN	-	-0.00003	-0.00003	-0.00001
	GN	-	0.00234	0.00260	0.00352

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7L	D	!GN	0.00198	0.00216	0.00315
	D	!GN	-0.00003	-0.00003	-0.00002
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00161	0.00179	0.00278
	GN	-	0.00268	0.00291	0.00367
	GN	-	-0.00003	-0.00002	0.00000
	GN	-	0.00002	0.00003	0.00005
	GN	-	0.00226	0.00249	0.00325

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7L	D	!GN	0.00199	0.00217	0.00315
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00001	0.00003	0.00008
	D	!GN	0.00157	0.00179	0.00278
	GN	-	0.00268	0.00291	0.00367
	GN	-	-0.00004	-0.00002	0.00002
	GN	-	0.00000	0.00003	0.00004
	GN	-	0.00226	0.00250	0.00325

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7L	D	!GN	0.00167	0.00182	0.00264
	D	!GN	0.00002	0.00003	0.00004
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00203	0.00218	0.00300
	GN	-	0.00260	0.00286	0.00378
	GN	-	0.00002	0.00004	0.00005
	GN	-	-0.00003	-0.00003	0.00000
	GN	-	0.00234	0.00260	0.00352

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7L	-0.00020	-0.00019	-0.00018
	-0.00001	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00029	0.00030	0.00031

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7L	0.00022	0.00022	0.00022
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	0.00000
	-0.00028	-0.00027	-0.00027

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7L	0.00100	0.00135	0.00257
	-0.00002	-0.00001	0.00000
	0.00000	0.00000	0.00000
	0.00172	0.00206	0.00328

Passive power(pJ) for GN falling :

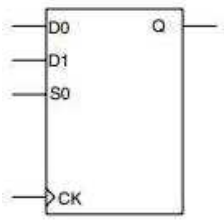
Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7L	0.00179	0.00219	0.00354
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00114	0.00153	0.00288

MDFFQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX0P5H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D0	D1	S0	Q
MDFFQX0P5H7L	0.00084	0.00074	0.00082	0.00196	0.06300

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MDFFQX0P5H7L	0.00000	6.83089	10.34600

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7L	CK->Q (RR)	(D1 * !S0)	0.08490	0.22081	0.54138
	CK->Q (RR)	(D0 * S0)	0.08490	0.22081	0.54138
	CK->Q (RR)	(!D1 * !S0)	0.08490	0.22081	0.54138
	CK->Q (RR)	(!D0 * S0)	0.08490	0.22081	0.54138

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7L	CK->Q (RF)	(D1 * !S0)	0.06512	0.17164	0.40490
	CK->Q (RF)	(D0 * S0)	0.06513	0.17163	0.40492
	CK->Q (RF)	(!D1 * !S0)	0.06512	0.17163	0.40490
	CK->Q (RF)	(!D0 * S0)	0.06513	0.17163	0.40492

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX0P5H7L	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	**hold**	**CK (R)**	-0.08909	-0.04670	-0.02370
	setup	**CK (R)**	0.03157	0.05792	0.09921

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	**hold**	**CK (R)**	-0.16794	-0.05953	0.01874
	setup	**CK (R)**	0.04263	0.09687	0.19585

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	**hold**	**CK (R)**	-0.09041	-0.04715	-0.02398
	setup	**CK (R)**	0.03157	0.05833	0.09921

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	**hold**	**CK (R)**	-0.17148	-0.06034	0.01600
	setup	**CK (R)**	0.04543	0.09861	0.19645

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	hold	CK (R)	-0.04815	-0.02709	0.00650
	setup	CK (R)	0.05227	0.07784	0.10992

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7L	hold	CK (R)	-0.13480	-0.04876	0.02746
	setup	CK (R)	0.03441	0.08891	0.18633

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7L	CK	(D1 * !S0)	0.00315	0.00351	0.00469
	CK	(D1 * !S0)	0.00004	0.00005	0.00010
	CK	(D1 * !S0)	-0.00004	-0.00003	-0.00002
	CK	(D1 * !S0)	0.00383	0.00416	0.00529
	CK	(D0 * S0)	0.00319	0.00352	0.00468
	CK	(D0 * S0)	0.00000	0.00005	0.00005
	CK	(D0 * S0)	-0.00005	-0.00003	-0.00003
	CK	(D0 * S0)	0.00384	0.00417	0.00529
	CK	(!D1 * !S0)	0.00314	0.00351	0.00469
	CK	(!D1 * !S0)	0.00000	0.00005	0.00009
	CK	(!D1 * !S0)	-0.00006	-0.00003	-0.00003
	CK	(!D1 * !S0)	0.00381	0.00416	0.00529
	CK	(!D0 * S0)	0.00319	0.00352	0.00470
	CK	(!D0 * S0)	0.00000	0.00005	0.00005
	CK	(!D0 * S0)	-0.00005	-0.00003	0.00001
	CK	(!D0 * S0)	0.00381	0.00417	0.00529

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7L	CK	(D1 * !S0)	0.00331	0.00366	0.00497
	CK	(D1 * !S0)	-0.00005	-0.00002	-0.00001
	CK	(D1 * !S0)	0.00003	0.00006	0.00007
	CK	(D1 * !S0)	0.00380	0.00415	0.00546
	CK	(D0 * S0)	0.00331	0.00367	0.00498
	CK	(D0 * S0)	-0.00005	-0.00002	0.00000
	CK	(D0 * S0)	0.00005	0.00006	0.00006
	CK	(D0 * S0)	0.00380	0.00416	0.00547
	CK	(!D1 * !S0)	0.00331	0.00366	0.00497
	CK	(!D1 * !S0)	-0.00003	-0.00002	0.00000
	CK	(!D1 * !S0)	0.00006	0.00006	0.00010
	CK	(!D1 * !S0)	0.00380	0.00415	0.00546
	CK	(!D0 * S0)	0.00331	0.00367	0.00498
	CK	(!D0 * S0)	-0.00005	-0.00002	-0.00000
	CK	(!D0 * S0)	0.00003	0.00006	0.00006
	CK	(!D0 * S0)	0.00380	0.00416	0.00547

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(D0 * D1 * S0)**	0.00144	0.00174	0.00283
	(D0 * D1 * S0)	0.00001	0.00001	0.00002
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00203	0.00233	0.00341
	(D0 * D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * D1 * !S0)	0.00001	0.00001	0.00001
	(D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * D1 * !S0)	0.00202	0.00232	0.00340
	(D0 * !D1 * S0)	0.00166	0.00196	0.00305
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00003
	(D0 * !D1 * S0)	0.00222	0.00252	0.00361
	(D0 * !D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * !D1 * !S0)	0.00001	0.00001	0.00002
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00202	0.00232	0.00341
	(!D0 * D1 * S0)	0.00144	0.00174	0.00283
	(!D0 * D1 * S0)	0.00001	0.00001	0.00002
	(!D0 * D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * S0)	0.00203	0.00233	0.00341
	(!D0 * D1 * !S0)	0.00165	0.00195	0.00305
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * !S0)	0.00001	0.00002	0.00003
	(!D0 * D1 * !S0)	0.00220	0.00251	0.00360
	(!D0 * !D1 * S0)	0.00165	0.00196	0.00305
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00220	0.00251	0.00361
	(!D0 * !D1 * !S0)	0.00165	0.00195	0.00305
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * !S0)	0.00220	0.00250	0.00360

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(D0 * D1 * S0)**	0.00362	0.00401	0.00537
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00312	0.00351	0.00487
	(D0 * D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00313	0.00352	0.00488
	(D0 * !D1 * S0)	0.00363	0.00404	0.00540
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00002
	(D0 * !D1 * S0)	0.00298	0.00338	0.00475
	(D0 * !D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00313	0.00352	0.00488
	(!D0 * D1 * S0)	0.00362	0.00401	0.00537
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00312	0.00351	0.00487
	(!D0 * D1 * !S0)	0.00364	0.00404	0.00541
	(!D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00000	0.00001	0.00002
	(!D0 * D1 * !S0)	0.00298	0.00339	0.00477
	(!D0 * !D1 * S0)	0.00363	0.00404	0.00540
	(!D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * S0)	0.00000	0.00001	0.00002
	(!D0 * !D1 * S0)	0.00297	0.00338	0.00476
	(!D0 * !D1 * !S0)	0.00365	0.00405	0.00541
	(!D0 * !D1 * !S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00000	0.00001	0.00002
	(!D0 * !D1 * !S0)	0.00298	0.00339	0.00476

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(CK * D1 * S0)**	-0.00011	-0.00011	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	0.00027	0.00027	0.00029
	(CK * D1 * !S0)	0.00013	0.00030	0.00091
	(CK * D1 * !S0)	0.00010	0.00011	0.00012
	(CK * D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * D1 * !S0)	0.00110	0.00127	0.00188
	(CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * !D1 * S0)	0.00000	0.00000	0.00000
	(CK * !D1 * S0)	0.00027	0.00027	0.00027
	(CK * !D1 * !S0)	0.00013	0.00030	0.00091
	(CK * !D1 * !S0)	0.00011	0.00011	0.00011
	(CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * !D1 * !S0)	0.00111	0.00127	0.00188
	(!CK * D1 * S0)	-0.00011	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00027	0.00027	0.00028
	(!CK * D1 * !S0)	0.00167	0.00184	0.00247
	(!CK * D1 * !S0)	0.00010	0.00010	0.00011
	(!CK * D1 * !S0)	-0.00012	-0.00011	-0.00011
	(!CK * D1 * !S0)	0.00265	0.00282	0.00346
	(!CK * !D1 * S0)	-0.00011	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00002	-0.00001	-0.00001
	(!CK * !D1 * S0)	0.00000	0.00000	0.00000
	(!CK * !D1 * S0)	0.00027	0.00027	0.00027
	(!CK * !D1 * !S0)	0.00167	0.00184	0.00247
	(!CK * !D1 * !S0)	0.00010	0.00010	0.00011
	(!CK * !D1 * !S0)	-0.00012	-0.00011	-0.00011
	(!CK * !D1 * !S0)	0.00265	0.00283	0.00346

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(CK * D1 * S0)**	0.00013	0.00013	0.00013
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(CK * D1 * !S0)	0.00121	0.00140	0.00208
	(CK * D1 * !S0)	-0.00011	-0.00011	-0.00010
	(CK * D1 * !S0)	0.00010	0.00010	0.00010
	(CK * D1 * !S0)	0.00024	0.00043	0.00110
	(CK * !D1 * S0)	0.00012	0.00013	0.00015
	(CK * !D1 * S0)	0.00000	0.00001	0.00001
	(CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(CK * !D1 * S0)	-0.00025	-0.00025	-0.00024
	(CK * !D1 * !S0)	0.00121	0.00140	0.00208
	(CK * !D1 * !S0)	-0.00011	-0.00011	-0.00010
	(CK * !D1 * !S0)	0.00010	0.00010	0.00010
	(CK * !D1 * !S0)	0.00024	0.00042	0.00110
	(!CK * D1 * S0)	0.00013	0.00013	0.00013
	(!CK * D1 * S0)	0.00000	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(!CK * D1 * !S0)	0.00219	0.00238	0.00311
	(!CK * D1 * !S0)	-0.00011	-0.00010	-0.00010
	(!CK * D1 * !S0)	0.00011	0.00011	0.00012
	(!CK * D1 * !S0)	0.00119	0.00139	0.00212
	(!CK * !D1 * S0)	0.00012	0.00013	0.00014
	(!CK * !D1 * S0)	0.00001	0.00001	0.00002
	(!CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(!CK * !D1 * S0)	-0.00026	-0.00025	-0.00023
	(!CK * !D1 * !S0)	0.00218	0.00238	0.00311
	(!CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(!CK * !D1 * !S0)	0.00011	0.00011	0.00012
	(!CK * !D1 * !S0)	0.00119	0.00138	0.00212

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(CK * D0 * S0)**	-0.00005	0.00011	0.00072
	(CK * D0 * S0)	0.00010	0.00011	0.00011
	(CK * D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * D0 * S0)	0.00095	0.00112	0.00172
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00026	0.00027	0.00027
	(CK * !D0 * S0)	-0.00006	0.00011	0.00072
	(CK * !D0 * S0)	0.00010	0.00011	0.00011
	(CK * !D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * !D0 * S0)	0.00095	0.00111	0.00172
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00000	0.00001
	(CK * !D0 * !S0)	0.00023	0.00024	0.00024
	(!CK * D0 * S0)	0.00148	0.00165	0.00228
	(!CK * D0 * S0)	0.00010	0.00010	0.00011
	(!CK * D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * S0)	0.00250	0.00267	0.00330
	(!CK * D0 * !S0)	-0.00015	-0.00015	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	0.00026	0.00027	0.00029
	(!CK * !D0 * S0)	0.00148	0.00165	0.00228
	(!CK * !D0 * S0)	0.00010	0.00010	0.00011
	(!CK * !D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * !D0 * S0)	0.00250	0.00267	0.00330
	(!CK * !D0 * !S0)	-0.00019	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00002	-0.00001	-0.00000
	(!CK * !D0 * !S0)	0.00000	0.00000	0.00000
	(!CK * !D0 * !S0)	0.00022	0.00023	0.00023

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(CK * D0 * S0)**	0.00142	0.00160	0.00227
	(CK * D0 * S0)	-0.00011	-0.00011	-0.00010
	(CK * D0 * S0)	0.00010	0.00010	0.00010
	(CK * D0 * S0)	0.00041	0.00060	0.00127
	(CK * D0 * !S0)	0.00017	0.00017	0.00017
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00025	-0.00025	-0.00025
	(CK * !D0 * S0)	0.00142	0.00160	0.00227
	(CK * !D0 * S0)	-0.00011	-0.00011	-0.00010
	(CK * !D0 * S0)	0.00010	0.00010	0.00010
	(CK * !D0 * S0)	0.00041	0.00060	0.00127
	(CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(CK * !D0 * !S0)	-0.00001	-0.00000	-0.00000
	(CK * !D0 * !S0)	-0.00021	-0.00021	-0.00020
	(!CK * D0 * S0)	0.00238	0.00258	0.00330
	(!CK * D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * D0 * S0)	0.00011	0.00011	0.00012
	(!CK * D0 * S0)	0.00136	0.00156	0.00228
	(!CK * D0 * !S0)	0.00016	0.00017	0.00017
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	-0.00025	-0.00025	-0.00024
	(!CK * !D0 * S0)	0.00238	0.00258	0.00330
	(!CK * !D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * !D0 * S0)	0.00011	0.00011	0.00012
	(!CK * !D0 * S0)	0.00136	0.00156	0.00228
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(!CK * !D0 * !S0)	0.00000	0.00001	0.00002
	(!CK * !D0 * !S0)	-0.00000	-0.00000	-0.00000
	(!CK * !D0 * !S0)	-0.00021	-0.00021	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7L	**(CK * D0 * D1)**	-0.00012	0.00020	0.00133
	(CK * D0 * D1)	0.00002	0.00002	0.00002
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00113	0.00145	0.00257
	(CK * D0 * !D1)	0.00107	0.00140	0.00257
	(CK * D0 * !D1)	-0.00008	-0.00006	-0.00005
	(CK * D0 * !D1)	0.00004	0.00006	0.00006
	(CK * D0 * !D1)	0.00184	0.00216	0.00331
	(CK * !D0 * D1)	-0.00018	0.00042	0.00249
	(CK * !D0 * D1)	0.00010	0.00011	0.00011
	(CK * !D0 * D1)	-0.00010	-0.00010	-0.00009
	(CK * !D0 * D1)	0.00153	0.00214	0.00421
	(CK * !D0 * !D1)	-0.00011	0.00022	0.00134
	(CK * !D0 * !D1)	0.00001	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !D1)	0.00113	0.00146	0.00259
	(!CK * D0 * D1)	-0.00012	0.00020	0.00133
	(!CK * D0 * D1)	0.00002	0.00002	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00113	0.00145	0.00257
	(!CK * D0 * !D1)	0.00200	0.00233	0.00351
	(!CK * D0 * !D1)	-0.00006	-0.00006	-0.00004
	(!CK * D0 * !D1)	0.00007	0.00008	0.00008
	(!CK * D0 * !D1)	0.00277	0.00310	0.00426
	(!CK * !D0 * D1)	0.00136	0.00196	0.00402
	(!CK * !D0 * D1)	0.00010	0.00010	0.00011
	(!CK * !D0 * D1)	-0.00011	-0.00011	-0.00010
	(!CK * !D0 * D1)	0.00309	0.00368	0.00575
	(!CK * !D0 * !D1)	-0.00012	0.00021	0.00134
	(!CK * !D0 * !D1)	0.00001	0.00002	0.00003
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00113	0.00146	0.00259

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

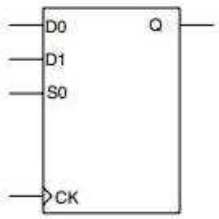
MDFFQX0P5H7L	**(CK * D0 * D1)**	0.00117	0.00154	0.00279
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00002
	(CK * D0 * D1)	0.00002	0.00002	0.00003
	(CK * D0 * D1)	-0.00008	0.00030	0.00154
	(CK * D0 * !D1)	0.00152	0.00191	0.00320
	(CK * D0 * !D1)	0.00005	0.00007	0.00009
	(CK * D0 * !D1)	-0.00006	-0.00006	-0.00004
	(CK * D0 * !D1)	0.00075	0.00114	0.00248
	(CK * !D0 * D1)	0.00192	0.00259	0.00485
	(CK * !D0 * D1)	-0.00011	-0.00010	-0.00009
	(CK * !D0 * D1)	0.00010	0.00010	0.00010
	(CK * !D0 * D1)	0.00021	0.00088	0.00313
	(CK * !D0 * !D1)	0.00117	0.00154	0.00278
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00007	0.00029	0.00153
	(!CK * D0 * D1)	0.00117	0.00155	0.00279
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00008	0.00030	0.00154
	(!CK * D0 * !D1)	0.00303	0.00343	0.00473
	(!CK * D0 * !D1)	0.00006	0.00007	0.00008
	(!CK * D0 * !D1)	-0.00008	-0.00007	-0.00007
	(!CK * D0 * !D1)	0.00227	0.00267	0.00400
	(!CK * !D0 * D1)	0.00290	0.00356	0.00583
	(!CK * !D0 * D1)	-0.00011	-0.00010	-0.00010
	(!CK * !D0 * D1)	0.00010	0.00011	0.00012
	(!CK * !D0 * D1)	0.00117	0.00183	0.00411
	(!CK * !D0 * !D1)	0.00117	0.00154	0.00277
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(!CK * !D0 * !D1)	-0.00007	0.00029	0.00152

MDFFQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX1H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX1H7L	0.00084	0.00074	0.00082	0.00196	0.07458

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX1H7L	0.00000	6.96485	10.57030

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7L	CK->Q (RR)	(D1 * !S0)	0.08465	0.22118	0.54199
	CK->Q (RR)	(D0 * S0)	0.08465	0.22118	0.54199
	CK->Q (RR)	(!D1 * !S0)	0.08465	0.22119	0.54220
	CK->Q (RR)	(!D0 * S0)	0.08465	0.22118	0.54202

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7L	CK->Q (RF)	(D1 * !S0)	0.06554	0.17349	0.40836
	CK->Q (RF)	(D0 * S0)	0.06555	0.17350	0.40835
	CK->Q (RF)	(!D1 * !S0)	0.06554	0.17349	0.40836
	CK->Q (RF)	(!D0 * S0)	0.06555	0.17350	0.40835

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX1H7L	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	**hold**	**CK (R)**	-0.09068	-0.04721	-0.02359
	setup	**CK (R)**	0.03157	0.05789	0.09858

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	**hold**	**CK (R)**	-0.17150	-0.05955	0.01739
	setup	**CK (R)**	0.04250	0.09677	0.19585

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	**hold**	**CK (R)**	-0.08899	-0.04734	-0.02359
	setup	**CK (R)**	0.03157	0.05841	0.09921

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	**hold**	**CK (R)**	-0.17042	-0.06040	0.01775
	setup	**CK (R)**	0.04541	0.09838	0.19645

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	hold	CK (R)	-0.04771	-0.02705	0.00990
	setup	CK (R)	0.05191	0.07763	0.10911

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7L	hold	CK (R)	-0.13533	-0.04874	0.02861
	setup	CK (R)	0.03468	0.08868	0.18808

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7L	CK	(D1 * !S0)	0.00325	0.00359	0.00475
	CK	(D1 * !S0)	0.00000	0.00004	0.00008
	CK	(D1 * !S0)	-0.00005	-0.00002	0.00003
	CK	(D1 * !S0)	0.00386	0.00422	0.00535
	CK	(D0 * S0)	0.00323	0.00360	0.00475
	CK	(D0 * S0)	0.00004	0.00004	0.00007
	CK	(D0 * S0)	-0.00006	-0.00003	-0.00000
	CK	(D0 * S0)	0.00391	0.00423	0.00536
	CK	(!D1 * !S0)	0.00325	0.00359	0.00475
	CK	(!D1 * !S0)	0.00000	0.00004	0.00008
	CK	(!D1 * !S0)	-0.00005	-0.00002	0.00003
	CK	(!D1 * !S0)	0.00386	0.00422	0.00535
	CK	(!D0 * S0)	0.00323	0.00360	0.00475
	CK	(!D0 * S0)	0.00004	0.00004	0.00007
	CK	(!D0 * S0)	-0.00006	-0.00003	0.00000
	CK	(!D0 * S0)	0.00391	0.00424	0.00536

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7L	CK	(D1 * !S0)	0.00338	0.00374	0.00508
	CK	(D1 * !S0)	-0.00004	-0.00001	0.00003
	CK	(D1 * !S0)	0.00005	0.00006	0.00009
	CK	(D1 * !S0)	0.00387	0.00424	0.00559
	CK	(D0 * S0)	0.00338	0.00375	0.00509
	CK	(D0 * S0)	-0.00004	-0.00001	0.00003
	CK	(D0 * S0)	0.00005	0.00006	0.00009
	CK	(D0 * S0)	0.00389	0.00425	0.00559
	CK	(!D1 * !S0)	0.00339	0.00374	0.00508
	CK	(!D1 * !S0)	-0.00004	-0.00001	0.00003
	CK	(!D1 * !S0)	0.00004	0.00006	0.00009
	CK	(!D1 * !S0)	0.00388	0.00424	0.00559
	CK	(!D0 * S0)	0.00337	0.00375	0.00509
	CK	(!D0 * S0)	-0.00004	-0.00001	0.00002
	CK	(!D0 * S0)	0.00005	0.00006	0.00009
	CK	(!D0 * S0)	0.00389	0.00425	0.00559

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(D0 * D1 * S0)**	0.00145	0.00175	0.00283
	(D0 * D1 * S0)	0.00001	0.00001	0.00001
	(D0 * D1 * S0)	0.00000	0.00000	0.00000
	(D0 * D1 * S0)	0.00203	0.00233	0.00341
	(D0 * D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * D1 * !S0)	0.00001	0.00001	0.00002
	(D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * D1 * !S0)	0.00202	0.00232	0.00341
	(D0 * !D1 * S0)	0.00166	0.00196	0.00305
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(D0 * !D1 * S0)	0.00220	0.00251	0.00361
	(D0 * !D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * !D1 * !S0)	0.00001	0.00001	0.00002
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * !S0)	0.00202	0.00232	0.00341
	(!D0 * D1 * S0)	0.00145	0.00175	0.00283
	(!D0 * D1 * S0)	0.00001	0.00001	0.00001
	(!D0 * D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * S0)	0.00203	0.00233	0.00341
	(!D0 * D1 * !S0)	0.00164	0.00195	0.00305
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * !S0)	0.00001	0.00002	0.00003
	(!D0 * D1 * !S0)	0.00220	0.00251	0.00360
	(!D0 * !D1 * S0)	0.00165	0.00196	0.00305
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00220	0.00251	0.00361
	(!D0 * !D1 * !S0)	0.00164	0.00195	0.00305
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * !S0)	0.00220	0.00250	0.00360

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(D0 * D1 * S0)**	0.00362	0.00401	0.00537
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * S0)	0.00312	0.00351	0.00487
	(D0 * D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00313	0.00352	0.00488
	(D0 * !D1 * S0)	0.00363	0.00404	0.00540
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00002
	(D0 * !D1 * S0)	0.00298	0.00338	0.00476
	(D0 * !D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * !D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00313	0.00352	0.00488
	(!D0 * D1 * S0)	0.00362	0.00401	0.00537
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(!D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00312	0.00351	0.00487
	(!D0 * D1 * !S0)	0.00364	0.00404	0.00541
	(!D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00000	0.00001	0.00002
	(!D0 * D1 * !S0)	0.00298	0.00339	0.00476
	(!D0 * !D1 * S0)	0.00363	0.00404	0.00540
	(!D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * S0)	0.00000	0.00001	0.00002
	(!D0 * !D1 * S0)	0.00298	0.00338	0.00475
	(!D0 * !D1 * !S0)	0.00364	0.00404	0.00541
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00000	0.00001	0.00002
	(!D0 * !D1 * !S0)	0.00298	0.00339	0.00476

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(CK * D1 * S0)**	-0.00011	-0.00011	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	0.00027	0.00027	0.00029
	(CK * D1 * !S0)	0.00013	0.00030	0.00091
	(CK * D1 * !S0)	0.00010	0.00010	0.00011
	(CK * D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * D1 * !S0)	0.00110	0.00127	0.00188
	(CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * !D1 * S0)	0.00000	0.00000	0.00000
	(CK * !D1 * S0)	0.00027	0.00027	0.00027
	(CK * !D1 * !S0)	0.00013	0.00030	0.00091
	(CK * !D1 * !S0)	0.00011	0.00011	0.00012
	(CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * !D1 * !S0)	0.00111	0.00128	0.00188
	(!CK * D1 * S0)	-0.00011	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00027	0.00027	0.00028
	(!CK * D1 * !S0)	0.00167	0.00184	0.00247
	(!CK * D1 * !S0)	0.00010	0.00010	0.00010
	(!CK * D1 * !S0)	-0.00012	-0.00011	-0.00011
	(!CK * D1 * !S0)	0.00265	0.00282	0.00346
	(!CK * !D1 * S0)	-0.00011	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00002	-0.00001	-0.00001
	(!CK * !D1 * S0)	0.00000	0.00000	0.00000
	(!CK * !D1 * S0)	0.00027	0.00027	0.00027
	(!CK * !D1 * !S0)	0.00167	0.00184	0.00247
	(!CK * !D1 * !S0)	0.00010	0.00010	0.00011
	(!CK * !D1 * !S0)	-0.00012	-0.00011	-0.00011
	(!CK * !D1 * !S0)	0.00266	0.00283	0.00346

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(CK * D1 * S0)**	0.00013	0.00013	0.00013
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(CK * D1 * !S0)	0.00121	0.00140	0.00208
	(CK * D1 * !S0)	-0.00011	-0.00010	-0.00010
	(CK * D1 * !S0)	0.00010	0.00010	0.00010
	(CK * D1 * !S0)	0.00024	0.00043	0.00110
	(CK * !D1 * S0)	0.00012	0.00013	0.00015
	(CK * !D1 * S0)	0.00000	0.00001	0.00001
	(CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(CK * !D1 * S0)	-0.00025	-0.00025	-0.00024
	(CK * !D1 * !S0)	0.00121	0.00140	0.00208
	(CK * !D1 * !S0)	-0.00011	-0.00011	-0.00011
	(CK * !D1 * !S0)	0.00010	0.00010	0.00010
	(CK * !D1 * !S0)	0.00024	0.00042	0.00110
	(!CK * D1 * S0)	0.00013	0.00013	0.00013
	(!CK * D1 * S0)	0.00000	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(!CK * D1 * !S0)	0.00219	0.00238	0.00311
	(!CK * D1 * !S0)	-0.00010	-0.00010	-0.00010
	(!CK * D1 * !S0)	0.00011	0.00011	0.00012
	(!CK * D1 * !S0)	0.00119	0.00139	0.00212
	(!CK * !D1 * S0)	0.00012	0.00013	0.00014
	(!CK * !D1 * S0)	0.00001	0.00001	0.00002
	(!CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(!CK * !D1 * S0)	-0.00026	-0.00025	-0.00023
	(!CK * !D1 * !S0)	0.00218	0.00238	0.00311
	(!CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(!CK * !D1 * !S0)	0.00011	0.00012	0.00012
	(!CK * !D1 * !S0)	0.00118	0.00138	0.00212

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(CK * D0 * S0)**	-0.00005	0.00011	0.00072
	(CK * D0 * S0)	0.00010	0.00011	0.00011
	(CK * D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * D0 * S0)	0.00095	0.00112	0.00172
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00026	0.00027	0.00027
	(CK * !D0 * S0)	-0.00005	0.00011	0.00072
	(CK * !D0 * S0)	0.00010	0.00011	0.00011
	(CK * !D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * !D0 * S0)	0.00095	0.00111	0.00172
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00000	0.00000
	(CK * !D0 * !S0)	0.00023	0.00024	0.00024
	(!CK * D0 * S0)	0.00148	0.00165	0.00228
	(!CK * D0 * S0)	0.00010	0.00010	0.00011
	(!CK * D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * S0)	0.00250	0.00267	0.00330
	(!CK * D0 * !S0)	-0.00015	-0.00015	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	0.00026	0.00027	0.00029
	(!CK * !D0 * S0)	0.00148	0.00165	0.00228
	(!CK * !D0 * S0)	0.00010	0.00010	0.00011
	(!CK * !D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * !D0 * S0)	0.00250	0.00267	0.00330
	(!CK * !D0 * !S0)	-0.00019	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00002	-0.00001	-0.00000
	(!CK * !D0 * !S0)	0.00000	0.00000	0.00000
	(!CK * !D0 * !S0)	0.00022	0.00023	0.00023

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(CK * D0 * S0)**	0.00142	0.00160	0.00227
	(CK * D0 * S0)	-0.00011	-0.00011	-0.00010
	(CK * D0 * S0)	0.00010	0.00010	0.00010
	(CK * D0 * S0)	0.00041	0.00060	0.00127
	(CK * D0 * !S0)	0.00017	0.00017	0.00017
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00025	-0.00025	-0.00025
	(CK * !D0 * S0)	0.00142	0.00160	0.00227
	(CK * !D0 * S0)	-0.00011	-0.00011	-0.00010
	(CK * !D0 * S0)	0.00010	0.00010	0.00010
	(CK * !D0 * S0)	0.00042	0.00060	0.00127
	(CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(CK * !D0 * !S0)	-0.00000	-0.00000	-0.00000
	(CK * !D0 * !S0)	-0.00021	-0.00020	-0.00020
	(!CK * D0 * S0)	0.00238	0.00258	0.00330
	(!CK * D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * D0 * S0)	0.00011	0.00011	0.00012
	(!CK * D0 * S0)	0.00136	0.00156	0.00228
	(!CK * D0 * !S0)	0.00016	0.00017	0.00017
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	-0.00025	-0.00025	-0.00024
	(!CK * !D0 * S0)	0.00239	0.00258	0.00330
	(!CK * !D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * !D0 * S0)	0.00011	0.00011	0.00012
	(!CK * !D0 * S0)	0.00137	0.00156	0.00228
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(!CK * !D0 * !S0)	0.00000	0.00001	0.00002
	(!CK * !D0 * !S0)	-0.00000	-0.00000	-0.00000
	(!CK * !D0 * !S0)	-0.00021	-0.00021	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7L	**(CK * D0 * D1)**	-0.00012	0.00020	0.00133
	(CK * D0 * D1)	0.00002	0.00002	0.00002
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00113	0.00145	0.00257
	(CK * D0 * !D1)	0.00107	0.00140	0.00258
	(CK * D0 * !D1)	-0.00008	-0.00006	-0.00005
	(CK * D0 * !D1)	0.00004	0.00006	0.00006
	(CK * D0 * !D1)	0.00184	0.00216	0.00331
	(CK * !D0 * D1)	-0.00018	0.00042	0.00249
	(CK * !D0 * D1)	0.00010	0.00011	0.00011
	(CK * !D0 * D1)	-0.00010	-0.00010	-0.00009
	(CK * !D0 * D1)	0.00153	0.00214	0.00421
	(CK * !D0 * !D1)	-0.00011	0.00022	0.00134
	(CK * !D0 * !D1)	0.00001	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !D1)	0.00113	0.00146	0.00260
	(!CK * D0 * D1)	-0.00012	0.00020	0.00133
	(!CK * D0 * D1)	0.00002	0.00002	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00113	0.00145	0.00257
	(!CK * D0 * !D1)	0.00200	0.00234	0.00351
	(!CK * D0 * !D1)	-0.00006	-0.00006	-0.00004
	(!CK * D0 * !D1)	0.00007	0.00008	0.00008
	(!CK * D0 * !D1)	0.00277	0.00310	0.00426
	(!CK * !D0 * D1)	0.00136	0.00196	0.00402
	(!CK * !D0 * D1)	0.00010	0.00010	0.00011
	(!CK * !D0 * D1)	-0.00012	-0.00011	-0.00010
	(!CK * !D0 * D1)	0.00309	0.00368	0.00575
	(!CK * !D0 * !D1)	-0.00012	0.00021	0.00134
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00004
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00113	0.00146	0.00259

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

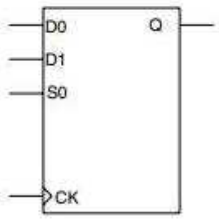
MDFFQX1H7L	**(CK * D0 * D1)**	0.00117	0.00154	0.00279
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00002
	(CK * D0 * D1)	0.00002	0.00002	0.00003
	(CK * D0 * D1)	-0.00008	0.00030	0.00154
	(CK * D0 * !D1)	0.00152	0.00191	0.00320
	(CK * D0 * !D1)	0.00005	0.00007	0.00009
	(CK * D0 * !D1)	-0.00006	-0.00006	-0.00004
	(CK * D0 * !D1)	0.00075	0.00114	0.00248
	(CK * !D0 * D1)	0.00192	0.00259	0.00485
	(CK * !D0 * D1)	-0.00011	-0.00010	-0.00010
	(CK * !D0 * D1)	0.00010	0.00010	0.00010
	(CK * !D0 * D1)	0.00021	0.00088	0.00313
	(CK * !D0 * !D1)	0.00117	0.00154	0.00277
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00007	0.00029	0.00153
	(!CK * D0 * D1)	0.00117	0.00155	0.00279
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00008	0.00030	0.00154
	(!CK * D0 * !D1)	0.00303	0.00343	0.00473
	(!CK * D0 * !D1)	0.00006	0.00007	0.00008
	(!CK * D0 * !D1)	-0.00008	-0.00007	-0.00007
	(!CK * D0 * !D1)	0.00227	0.00267	0.00400
	(!CK * !D0 * D1)	0.00290	0.00356	0.00583
	(!CK * !D0 * D1)	-0.00011	-0.00010	-0.00010
	(!CK * !D0 * D1)	0.00010	0.00011	0.00012
	(!CK * !D0 * D1)	0.00117	0.00183	0.00411
	(!CK * !D0 * !D1)	0.00117	0.00154	0.00277
	(!CK * !D0 * !D1)	-0.00004	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(!CK * !D0 * !D1)	-0.00007	0.00029	0.00152

MDFFQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX2H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX2H7L	0.00084	0.00074	0.00082	0.00196	0.09437

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX2H7L	0.00000	7.54322	11.54330

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7L	CK->Q (RR)	(D1 * !S0)	0.08646	0.22444	0.54592
	CK->Q (RR)	(D0 * S0)	0.08647	0.22444	0.54594
	CK->Q (RR)	(!D1 * !S0)	0.08647	0.22444	0.54592
	CK->Q (RR)	(!D0 * S0)	0.08647	0.22445	0.54593

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7L	CK->Q (RF)	(D1 * !S0)	0.06871	0.18070	0.42158
	CK->Q (RF)	(D0 * S0)	0.06871	0.18071	0.42168
	CK->Q (RF)	(!D1 * !S0)	0.06871	0.18070	0.42158
	CK->Q (RF)	(!D0 * S0)	0.06871	0.18071	0.42168

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX2H7L	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	**hold**	**CK (R)**	-0.08855	-0.04705	-0.02417
	setup	**CK (R)**	0.03157	0.05817	0.09921

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	**hold**	**CK (R)**	-0.16895	-0.05944	0.01896
	setup	**CK (R)**	0.04175	0.09588	0.19630

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	**hold**	**CK (R)**	-0.09166	-0.04735	-0.02417
	setup	**CK (R)**	0.03157	0.05835	0.10050

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	**hold**	**CK (R)**	-0.17119	-0.06073	0.01486
	setup	**CK (R)**	0.04428	0.09746	0.19647

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	hold	CK (R)	-0.04756	-0.02755	0.00907
	setup	CK (R)	0.05084	0.07666	0.10483

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7L	hold	CK (R)	-0.13665	-0.04899	0.02525
	setup	CK (R)	0.04822	0.09218	0.18809

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7L	CK	(D1 * !S0)	0.00346	0.00379	0.00494
	CK	(D1 * !S0)	0.00003	0.00004	0.00006
	CK	(D1 * !S0)	-0.00005	-0.00002	0.00003
	CK	(D1 * !S0)	0.00407	0.00441	0.00554
	CK	(D0 * S0)	0.00347	0.00380	0.00497
	CK	(D0 * S0)	0.00003	0.00004	0.00006
	CK	(D0 * S0)	-0.00005	-0.00002	0.00003
	CK	(D0 * S0)	0.00409	0.00442	0.00555
	CK	(!D1 * !S0)	0.00344	0.00379	0.00496
	CK	(!D1 * !S0)	0.00003	0.00004	0.00007
	CK	(!D1 * !S0)	-0.00005	-0.00002	0.00003
	CK	(!D1 * !S0)	0.00408	0.00442	0.00554
	CK	(!D0 * S0)	0.00347	0.00380	0.00499
	CK	(!D0 * S0)	0.00003	0.00003	0.00006
	CK	(!D0 * S0)	-0.00005	-0.00002	0.00003
	CK	(!D0 * S0)	0.00409	0.00442	0.00555

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7L	CK	(D1 * !S0)	0.00363	0.00402	0.00547
	CK	(D1 * !S0)	-0.00001	-0.00000	0.00003
	CK	(D1 * !S0)	0.00005	0.00005	0.00006
	CK	(D1 * !S0)	0.00417	0.00454	0.00598
	CK	(D0 * S0)	0.00366	0.00403	0.00547
	CK	(D0 * S0)	-0.00004	-0.00000	0.00003
	CK	(D0 * S0)	0.00002	0.00005	0.00006
	CK	(D0 * S0)	0.00416	0.00454	0.00599
	CK	(!D1 * !S0)	0.00365	0.00402	0.00547
	CK	(!D1 * !S0)	-0.00004	-0.00001	0.00002
	CK	(!D1 * !S0)	0.00005	0.00005	0.00006
	CK	(!D1 * !S0)	0.00417	0.00454	0.00598
	CK	(!D0 * S0)	0.00366	0.00402	0.00547
	CK	(!D0 * S0)	-0.00004	-0.00000	0.00003
	CK	(!D0 * S0)	0.00002	0.00005	0.00005
	CK	(!D0 * S0)	0.00416	0.00454	0.00599

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(D0 * D1 * S0)**	0.00144	0.00174	0.00283
	(D0 * D1 * S0)	0.00001	0.00002	0.00002
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00202	0.00233	0.00341
	(D0 * D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * D1 * !S0)	0.00001	0.00001	0.00001
	(D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * D1 * !S0)	0.00202	0.00232	0.00341
	(D0 * !D1 * S0)	0.00165	0.00196	0.00305
	(D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * S0)	0.00000	0.00002	0.00003
	(D0 * !D1 * S0)	0.00221	0.00251	0.00361
	(D0 * !D1 * !S0)	0.00144	0.00174	0.00282
	(D0 * !D1 * !S0)	0.00001	0.00001	0.00001
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00202	0.00232	0.00341
	(!D0 * D1 * S0)	0.00144	0.00174	0.00283
	(!D0 * D1 * S0)	0.00001	0.00002	0.00002
	(!D0 * D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * S0)	0.00202	0.00233	0.00341
	(!D0 * D1 * !S0)	0.00164	0.00195	0.00304
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00000	0.00002	0.00003
	(!D0 * D1 * !S0)	0.00220	0.00251	0.00360
	(!D0 * !D1 * S0)	0.00165	0.00196	0.00305
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00220	0.00251	0.00361
	(!D0 * !D1 * !S0)	0.00164	0.00195	0.00305
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * !S0)	0.00220	0.00251	0.00360

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(D0 * D1 * S0)**	0.00362	0.00401	0.00537
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00312	0.00351	0.00487
	(D0 * D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00313	0.00352	0.00488
	(D0 * !D1 * S0)	0.00363	0.00404	0.00541
	(D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(D0 * !D1 * S0)	0.00298	0.00339	0.00476
	(D0 * !D1 * !S0)	0.00363	0.00402	0.00538
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00001
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00313	0.00352	0.00488
	(!D0 * D1 * S0)	0.00362	0.00401	0.00537
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00001
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00312	0.00351	0.00487
	(!D0 * D1 * !S0)	0.00364	0.00405	0.00541
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00000	0.00001	0.00001
	(!D0 * D1 * !S0)	0.00299	0.00339	0.00476
	(!D0 * !D1 * S0)	0.00363	0.00404	0.00541
	(!D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(!D0 * !D1 * S0)	0.00298	0.00339	0.00476
	(!D0 * !D1 * !S0)	0.00364	0.00404	0.00541
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00000	0.00001	0.00001
	(!D0 * !D1 * !S0)	0.00299	0.00340	0.00476

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D1 * S0)**	-0.00011	-0.00011	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	0.00027	0.00027	0.00029
	(CK * D1 * !S0)	0.00013	0.00030	0.00091
	(CK * D1 * !S0)	0.00010	0.00011	0.00011
	(CK * D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * D1 * !S0)	0.00110	0.00127	0.00188
	(CK * !D1 * S0)	-0.00011	-0.00011	-0.00010
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	0.00000	0.00000	0.00000
	(CK * !D1 * S0)	0.00027	0.00028	0.00028
	(CK * !D1 * !S0)	0.00013	0.00030	0.00091
	(CK * !D1 * !S0)	0.00010	0.00011	0.00011
	(CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(CK * !D1 * !S0)	0.00110	0.00127	0.00188
	(!CK * D1 * S0)	-0.00011	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00027	0.00027	0.00028
	(!CK * D1 * !S0)	0.00167	0.00184	0.00247
	(!CK * D1 * !S0)	0.00010	0.00010	0.00010
	(!CK * D1 * !S0)	-0.00012	-0.00011	-0.00011
	(!CK * D1 * !S0)	0.00265	0.00282	0.00346
	(!CK * !D1 * S0)	-0.00011	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00002	-0.00001	-0.00001
	(!CK * !D1 * S0)	0.00000	0.00000	0.00000
	(!CK * !D1 * S0)	0.00027	0.00027	0.00027
	(!CK * !D1 * !S0)	0.00167	0.00184	0.00248
	(!CK * !D1 * !S0)	0.00010	0.00010	0.00011
	(!CK * !D1 * !S0)	-0.00012	-0.00012	-0.00011
	(!CK * !D1 * !S0)	0.00266	0.00283	0.00346

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D1 * S0)**	0.00013	0.00013	0.00013
	(CK * D1 * S0)	0.00000	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00000
	(CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(CK * D1 * !S0)	0.00121	0.00140	0.00208
	(CK * D1 * !S0)	-0.00011	-0.00011	-0.00010
	(CK * D1 * !S0)	0.00010	0.00010	0.00010
	(CK * D1 * !S0)	0.00024	0.00043	0.00110
	(CK * !D1 * S0)	0.00013	0.00013	0.00014
	(CK * !D1 * S0)	0.00001	0.00001	0.00002
	(CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(CK * !D1 * S0)	-0.00025	-0.00025	-0.00023
	(CK * !D1 * !S0)	0.00121	0.00140	0.00208
	(CK * !D1 * !S0)	-0.00011	-0.00010	-0.00010
	(CK * !D1 * !S0)	0.00010	0.00010	0.00010
	(CK * !D1 * !S0)	0.00024	0.00042	0.00110
	(!CK * D1 * S0)	0.00013	0.00013	0.00013
	(!CK * D1 * S0)	0.00000	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00026	-0.00025	-0.00025
	(!CK * D1 * !S0)	0.00218	0.00238	0.00311
	(!CK * D1 * !S0)	-0.00010	-0.00010	-0.00010
	(!CK * D1 * !S0)	0.00011	0.00011	0.00012
	(!CK * D1 * !S0)	0.00119	0.00139	0.00212
	(!CK * !D1 * S0)	0.00012	0.00013	0.00014
	(!CK * !D1 * S0)	0.00001	0.00001	0.00002
	(!CK * !D1 * S0)	-0.00000	-0.00000	-0.00000
	(!CK * !D1 * S0)	-0.00026	-0.00025	-0.00023
	(!CK * !D1 * !S0)	0.00218	0.00238	0.00311
	(!CK * !D1 * !S0)	-0.00010	-0.00010	-0.00010
	(!CK * !D1 * !S0)	0.00011	0.00012	0.00012
	(!CK * !D1 * !S0)	0.00119	0.00139	0.00212

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D0 * S0)**	-0.00005	0.00011	0.00072
	(CK * D0 * S0)	0.00011	0.00011	0.00011
	(CK * D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * D0 * S0)	0.00095	0.00111	0.00172
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00026	0.00027	0.00027
	(CK * !D0 * S0)	-0.00005	0.00011	0.00072
	(CK * !D0 * S0)	0.00011	0.00011	0.00011
	(CK * !D0 * S0)	-0.00010	-0.00010	-0.00010
	(CK * !D0 * S0)	0.00095	0.00111	0.00172
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00000	0.00000
	(CK * !D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * D0 * S0)	0.00148	0.00165	0.00228
	(!CK * D0 * S0)	0.00010	0.00010	0.00011
	(!CK * D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * S0)	0.00251	0.00267	0.00330
	(!CK * D0 * !S0)	-0.00015	-0.00015	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	0.00026	0.00027	0.00029
	(!CK * !D0 * S0)	0.00148	0.00165	0.00228
	(!CK * !D0 * S0)	0.00010	0.00010	0.00011
	(!CK * !D0 * S0)	-0.00012	-0.00011	-0.00011
	(!CK * !D0 * S0)	0.00251	0.00267	0.00330
	(!CK * !D0 * !S0)	-0.00019	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D0 * !S0)	0.00000	0.00000	0.00000
	(!CK * !D0 * !S0)	0.00023	0.00023	0.00024

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D0 * S0)**	0.00142	0.00160	0.00227
	(CK * D0 * S0)	-0.00011	-0.00011	-0.00011
	(CK * D0 * S0)	0.00010	0.00010	0.00010
	(CK * D0 * S0)	0.00041	0.00060	0.00127
	(CK * D0 * !S0)	0.00017	0.00017	0.00017
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00025	-0.00025	-0.00024
	(CK * !D0 * S0)	0.00142	0.00160	0.00227
	(CK * !D0 * S0)	-0.00011	-0.00011	-0.00011
	(CK * !D0 * S0)	0.00010	0.00010	0.00010
	(CK * !D0 * S0)	0.00041	0.00060	0.00127
	(CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(CK * !D0 * !S0)	-0.00000	-0.00000	-0.00000
	(CK * !D0 * !S0)	-0.00021	-0.00020	-0.00020
	(!CK * D0 * S0)	0.00238	0.00259	0.00330
	(!CK * D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * D0 * S0)	0.00011	0.00011	0.00012
	(!CK * D0 * S0)	0.00136	0.00157	0.00228
	(!CK * D0 * !S0)	0.00017	0.00017	0.00017
	(!CK * D0 * !S0)	0.00000	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00000
	(!CK * D0 * !S0)	-0.00025	-0.00025	-0.00024
	(!CK * !D0 * S0)	0.00239	0.00259	0.00330
	(!CK * !D0 * S0)	-0.00011	-0.00010	-0.00010
	(!CK * !D0 * S0)	0.00011	0.00011	0.00012
	(!CK * !D0 * S0)	0.00137	0.00156	0.00228
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00022
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(!CK * !D0 * !S0)	-0.00000	-0.00000	0.00000
	(!CK * !D0 * !S0)	-0.00021	-0.00021	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D0 * D1)**	-0.00012	0.00020	0.00133
	(CK * D0 * D1)	0.00002	0.00002	0.00002
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00113	0.00145	0.00258
	(CK * D0 * !D1)	0.00107	0.00140	0.00258
	(CK * D0 * !D1)	-0.00006	-0.00006	-0.00006
	(CK * D0 * !D1)	0.00004	0.00006	0.00006
	(CK * D0 * !D1)	0.00184	0.00217	0.00331
	(CK * !D0 * D1)	-0.00018	0.00042	0.00249
	(CK * !D0 * D1)	0.00010	0.00011	0.00011
	(CK * !D0 * D1)	-0.00010	-0.00010	-0.00009
	(CK * !D0 * D1)	0.00153	0.00214	0.00421
	(CK * !D0 * !D1)	-0.00011	0.00022	0.00134
	(CK * !D0 * !D1)	0.00001	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !D1)	0.00113	0.00146	0.00260
	(!CK * D0 * D1)	-0.00012	0.00020	0.00133
	(!CK * D0 * D1)	0.00002	0.00002	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00113	0.00145	0.00257
	(!CK * D0 * !D1)	0.00200	0.00235	0.00351
	(!CK * D0 * !D1)	-0.00008	-0.00006	-0.00006
	(!CK * D0 * !D1)	0.00007	0.00007	0.00007
	(!CK * D0 * !D1)	0.00277	0.00311	0.00426
	(!CK * !D0 * D1)	0.00137	0.00196	0.00402
	(!CK * !D0 * D1)	0.00010	0.00010	0.00011
	(!CK * !D0 * D1)	-0.00012	-0.00011	-0.00011
	(!CK * !D0 * D1)	0.00309	0.00368	0.00575
	(!CK * !D0 * !D1)	-0.00012	0.00021	0.00134
	(!CK * !D0 * !D1)	0.00001	0.00002	0.00003
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(!CK * !D0 * !D1)	0.00113	0.00146	0.00259

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7L	**(CK * D0 * D1)**	0.00117	0.00155	0.00279
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00002
	(CK * D0 * D1)	0.00001	0.00002	0.00004
	(CK * D0 * D1)	-0.00008	0.00030	0.00154
	(CK * D0 * !D1)	0.00152	0.00191	0.00320
	(CK * D0 * !D1)	0.00006	0.00007	0.00009
	(CK * D0 * !D1)	-0.00006	-0.00006	-0.00004
	(CK * D0 * !D1)	0.00075	0.00114	0.00248
	(CK * !D0 * D1)	0.00192	0.00259	0.00485
	(CK * !D0 * D1)	-0.00011	-0.00010	-0.00009
	(CK * !D0 * D1)	0.00010	0.00010	0.00010
	(CK * !D0 * D1)	0.00021	0.00088	0.00313
	(CK * !D0 * !D1)	0.00116	0.00154	0.00278
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(CK * !D0 * !D1)	-0.00008	0.00029	0.00153
	(!CK * D0 * D1)	0.00117	0.00154	0.00279
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00008	0.00030	0.00154
	(!CK * D0 * !D1)	0.00304	0.00343	0.00474
	(!CK * D0 * !D1)	0.00006	0.00006	0.00008
	(!CK * D0 * !D1)	-0.00007	-0.00007	-0.00007
	(!CK * D0 * !D1)	0.00227	0.00267	0.00400
	(!CK * !D0 * D1)	0.00290	0.00356	0.00583
	(!CK * !D0 * D1)	-0.00010	-0.00010	-0.00009
	(!CK * !D0 * D1)	0.00011	0.00011	0.00012
	(!CK * !D0 * D1)	0.00117	0.00184	0.00411
	(!CK * !D0 * !D1)	0.00117	0.00154	0.00277
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(!CK * !D0 * !D1)	-0.00007	0.00029	0.00152

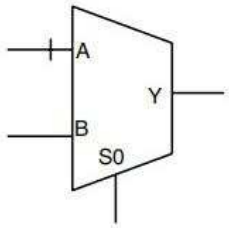
MUX2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P5H7L	0.00062	0.00073	0.00184	0.04527

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P5H7L	0.00000	2.06094	3.08287

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7L	A->Y (RR)	-	0.03856	0.16544	0.47925
	B->Y (RR)	-	0.03864	0.16551	0.47830
	S0->Y (RR)	(!A * B)	0.03305	0.15704	0.46646
	S0->Y (FR)	(A * !B)	0.05375	0.19673	0.55248

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7L	A->Y (FF)	-	0.04755	0.15823	0.43015
	B->Y (FF)	-	0.04970	0.15957	0.43092
	S0->Y (FF)	(!A * B)	0.03928	0.14833	0.42165
	S0->Y (RF)	(A * !B)	0.05605	0.13978	0.33318

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7L	A	-	0.00052	0.00069	0.00126
	A	-	0.00005	0.00005	0.00005
	A	-	-0.00005	-0.00005	-0.00005
	A	-	0.00125	0.00142	0.00199
	B	-	0.00036	0.00052	0.00108
	B	-	0.00004	0.00005	0.00004
	B	-	-0.00005	-0.00005	-0.00005
	B	-	0.00115	0.00131	0.00188
	S0	(A * !B)	0.00152	0.00185	0.00294
	S0	(A * !B)	0.00003	0.00003	0.00003
	S0	(A * !B)	-0.00004	-0.00002	-0.00002
	S0	(A * !B)	0.00081	0.00115	0.00225
	S0	(!A * B)	0.00028	0.00080	0.00257
	S0	(!A * B)	0.00005	0.00006	0.00006
	S0	(!A * B)	-0.00005	-0.00004	-0.00002
	S0	(!A * B)	0.00170	0.00224	0.00402

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7L	A	-	0.00109	0.00126	0.00193
	A	-	-0.00005	-0.00005	-0.00005
	A	-	0.00005	0.00005	0.00005
	A	-	0.00036	0.00052	0.00119
	B	-	0.00127	0.00143	0.00210
	B	-	-0.00004	-0.00005	-0.00004
	B	-	0.00005	0.00005	0.00005
	B	-	0.00048	0.00064	0.00130
	S0	(A * !B)	0.00099	0.00128	0.00224
	S0	(A * !B)	-0.00003	-0.00002	-0.00000
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	0.00170	0.00197	0.00294
	S0	(!A * B)	0.00162	0.00218	0.00415
	S0	(!A * B)	-0.00005	-0.00004	0.00000
	S0	(!A * B)	0.00006	0.00006	0.00006
	S0	(!A * B)	0.00017	0.00073	0.00270

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00000	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00012	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(A * B * Y)	-0.00009	0.00018	0.00110
	(A * B * Y)	0.00001	0.00001	0.00002
	(A * B * Y)	-0.00001	-0.00001	0.00000
	(A * B * Y)	0.00100	0.00127	0.00219
	(!A * !B * !Y)	-0.00011	0.00016	0.00109
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00097	0.00125	0.00217

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7L	(A * B * Y)	0.00084	0.00115	0.00216
	(A * B * Y)	-0.00001	-0.00001	-0.00001
	(A * B * Y)	0.00000	0.00001	0.00002
	(A * B * Y)	-0.00025	0.00006	0.00107
	(!A * !B * !Y)	0.00085	0.00116	0.00217
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00001
	(!A * !B * !Y)	-0.00022	0.00008	0.00109

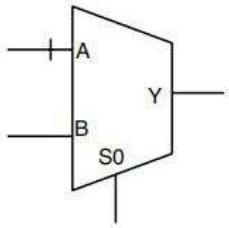
MUX2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P7H7L	0.00062	0.00073	0.00184	0.05133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P7H7L	0.00000	2.10272	3.09465

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7L	A->Y (RR)	-	0.03787	0.16520	0.47849
	B->Y (RR)	-	0.03800	0.16535	0.47877
	S0->Y (RR)	(!A * B)	0.03235	0.15697	0.46705
	S0->Y (FR)	(A * !B)	0.05306	0.19625	0.55208

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7L	A->Y (FF)	-	0.04721	0.15789	0.42873
	B->Y (FF)	-	0.04942	0.15926	0.42954
	S0->Y (FF)	(!A * B)	0.03896	0.14813	0.42062
	S0->Y (RF)	(A * !B)	0.05564	0.13918	0.33097

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7L	A	-	0.00055	0.00071	0.00130
	A	-	0.00004	0.00004	0.00004
	A	-	-0.00005	-0.00005	-0.00004
	A	-	0.00127	0.00144	0.00203
	B	-	0.00038	0.00054	0.00112
	B	-	0.00004	0.00004	0.00004
	B	-	-0.00005	-0.00005	-0.00004
	B	-	0.00117	0.00133	0.00192
	S0	(A * !B)	0.00154	0.00187	0.00296
	S0	(A * !B)	0.00000	0.00003	0.00003
	S0	(A * !B)	-0.00003	-0.00002	-0.00001
	S0	(A * !B)	0.00083	0.00117	0.00227
	S0	(!A * B)	0.00030	0.00082	0.00262
	S0	(!A * B)	0.00005	0.00006	0.00006
	S0	(!A * B)	-0.00005	-0.00004	-0.00002
	S0	(!A * B)	0.00174	0.00226	0.00407

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7L	A	-	0.00112	0.00128	0.00198
	A	-	-0.00004	-0.00004	-0.00004
	A	-	0.00005	0.00005	0.00005
	A	-	0.00038	0.00055	0.00125
	B	-	0.00129	0.00146	0.00214
	B	-	-0.00004	-0.00004	-0.00004
	B	-	0.00004	0.00005	0.00005
	B	-	0.00050	0.00067	0.00135
	S0	(A * !B)	0.00102	0.00130	0.00227
	S0	(A * !B)	-0.00002	-0.00001	0.00000
	S0	(A * !B)	0.00002	0.00003	0.00003
	S0	(A * !B)	0.00172	0.00200	0.00294
	S0	(!A * B)	0.00165	0.00221	0.00421
	S0	(!A * B)	-0.00004	-0.00004	-0.00004
	S0	(!A * B)	0.00005	0.00006	0.00006
	S0	(!A * B)	0.00020	0.00076	0.00276

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00000	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00000	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00012	0.00012	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(A * B * Y)	-0.00009	0.00018	0.00110
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	-0.00001
	(A * B * Y)	0.00100	0.00127	0.00219
	(!A * !B * !Y)	-0.00011	0.00016	0.00109
	(!A * !B * !Y)	0.00000	0.00001	0.00002
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00097	0.00124	0.00217

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7L	(A * B * Y)	0.00084	0.00115	0.00216
	(A * B * Y)	-0.00001	-0.00001	-0.00000
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00025	0.00006	0.00107
	(!A * !B * !Y)	0.00085	0.00116	0.00217
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * !Y)	0.00001	0.00001	0.00001
	(!A * !B * !Y)	-0.00022	0.00008	0.00109

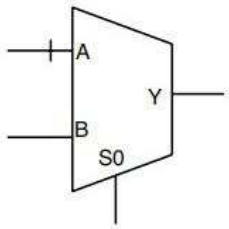
MUX2X12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X12H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X12H7L	0.00257	0.00269	0.00441	0.50143

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X12H7L	0.00000	15.15930	22.74050

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7L	A->Y (RR)	-	0.03615	0.17147	0.49606
	B->Y (RR)	-	0.03282	0.16828	0.49217
	S0->Y (RR)	(!A * B)	0.02948	0.16253	0.48153
	S0->Y (FR)	(A * !B)	0.04861	0.20355	0.57578

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7L	A->Y (FF)	-	0.03930	0.16046	0.44161
	B->Y (FF)	-	0.04052	0.15979	0.43771
	S0->Y (FF)	(!A * B)	0.03856	0.15763	0.44021
	S0->Y (RF)	(A * !B)	0.04127	0.14315	0.35464

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7L	A	-	0.00421	0.00548	0.01128
	A	-	0.00011	0.00014	0.00015
	A	-	-0.00015	-0.00015	-0.00014
	A	-	0.00714	0.00845	0.01423
	B	-	0.00326	0.00453	0.01036
	B	-	0.00012	0.00013	0.00014
	B	-	-0.00015	-0.00015	-0.00014
	B	-	0.00626	0.00757	0.01337
	S0	(A * !B)	0.00742	0.00889	0.01376
	S0	(A * !B)	-0.00004	-0.00003	-0.00002
	S0	(A * !B)	0.00001	0.00002	0.00005
	S0	(A * !B)	0.00543	0.00690	0.01177
	S0	(!A * B)	0.00352	0.00512	0.01238
	S0	(!A * B)	0.00000	0.00002	0.00004
	S0	(!A * B)	-0.00003	-0.00003	0.00007
	S0	(!A * B)	0.00672	0.00838	0.01563

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7L	A	-	0.00726	0.00870	0.01583
	A	-	-0.00014	-0.00013	-0.00011
	A	-	0.00014	0.00015	0.00015
	A	-	0.00432	0.00572	0.01288
	B	-	0.00787	0.00931	0.01645
	B	-	-0.00014	-0.00013	-0.00012
	B	-	0.00015	0.00015	0.00016
	B	-	0.00485	0.00626	0.01343
	S0	(A * !B)	0.00645	0.00797	0.01308
	S0	(A * !B)	0.00002	0.00003	0.00005
	S0	(A * !B)	-0.00003	-0.00002	0.00001
	S0	(A * !B)	0.00843	0.00996	0.01506
	S0	(!A * B)	0.00739	0.00918	0.01753
	S0	(!A * B)	-0.00003	-0.00002	0.00006
	S0	(!A * B)	0.00002	0.00003	0.00004
	S0	(!A * B)	0.00415	0.00591	0.01427

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00030	0.00098	0.00511
	(B * S0 * Y) + (!B * S0 * !Y)	0.00012	0.00014	0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00015	-0.00015	-0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	0.00201	0.00331	0.00744

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00235	0.00380	0.00833
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00014	-0.00014	-0.00012
	(B * S0 * Y) + (!B * S0 * !Y)	0.00014	0.00015	0.00015
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00148	0.00600

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00012	0.00120	0.00537
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00012	0.00014	0.00014
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00015	-0.00015	-0.00014
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00225	0.00357	0.00776

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00198	0.00345	0.00802
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00014	-0.00014	-0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00014	0.00015	0.00015
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00040	0.00106	0.00563

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(A * B * Y)	-0.00017	0.00031	0.00200
	(A * B * Y)	0.00001	0.00003	0.00003
	(A * B * Y)	-0.00003	-0.00002	0.00000
	(A * B * Y)	0.00245	0.00293	0.00463
	(!A * !B * !Y)	-0.00006	0.00043	0.00214
	(!A * !B * !Y)	0.00002	0.00003	0.00005
	(!A * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !B * !Y)	0.00255	0.00304	0.00476

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7L	(A * B * Y)	0.00242	0.00296	0.00484
	(A * B * Y)	-0.00003	-0.00002	-0.00001
	(A * B * Y)	0.00000	0.00002	0.00003
	(A * B * Y)	-0.00020	0.00034	0.00221
	(!A * !B * !Y)	0.00226	0.00281	0.00469
	(!A * !B * !Y)	-0.00003	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00003	0.00004
	(!A * !B * !Y)	-0.00033	0.00020	0.00207

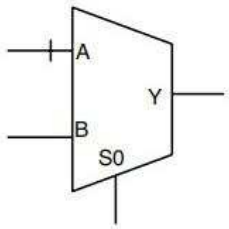
MUX2X16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X16H7L	12.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X16H7L	0.00343	0.00364	0.00577	0.67490

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X16H7L	0.00000	19.99910	29.98770

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7L	A->Y (RR)	-	0.03825	0.17463	0.50123
	B->Y (RR)	-	0.03381	0.17047	0.49692
	S0->Y (RR)	(!A * B)	0.03107	0.16584	0.48826
	S0->Y (FR)	(A * !B)	0.05551	0.21461	0.59503

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7L	A->Y (FF)	-	0.04048	0.16361	0.44815
	B->Y (FF)	-	0.04210	0.16296	0.44390
	S0->Y (FF)	(!A * B)	0.04082	0.15995	0.44192
	S0->Y (RF)	(A * !B)	0.04506	0.15202	0.37265

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7L	A	-	0.00580	0.00753	0.01532
	A	-	0.00016	0.00018	0.00020
	A	-	-0.00021	-0.00020	-0.00018
	A	-	0.00992	0.01164	0.01944
	B	-	0.00449	0.00619	0.01403
	B	-	0.00017	0.00018	0.00021
	B	-	-0.00020	-0.00020	-0.00018
	B	-	0.00862	0.01035	0.01818
	S0	(A * !B)	0.01041	0.01224	0.01829
	S0	(A * !B)	-0.00004	-0.00003	0.00000
	S0	(A * !B)	-0.00010	0.00002	0.00003
	S0	(A * !B)	0.00796	0.00977	0.01581
	S0	(!A * B)	0.00479	0.00675	0.01596
	S0	(!A * B)	0.00000	0.00002	0.00007
	S0	(!A * B)	-0.00004	-0.00003	-0.00000
	S0	(!A * B)	0.00901	0.01100	0.02020

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7L	A	-	0.01035	0.01226	0.02187
	A	-	-0.00019	-0.00018	-0.00016
	A	-	0.00018	0.00020	0.00022
	A	-	0.00625	0.00811	0.01775
	B	-	0.01110	0.01302	0.02265
	B	-	-0.00021	-0.00018	-0.00014
	B	-	0.00019	0.00020	0.00020
	B	-	0.00699	0.00886	0.01851
	S0	(A * !B)	0.00932	0.01129	0.01774
	S0	(A * !B)	0.00000	0.00003	0.00004
	S0	(A * !B)	-0.00002	-0.00001	0.00012
	S0	(A * !B)	0.01177	0.01374	0.02020
	S0	(!A * B)	0.01030	0.01249	0.02314
	S0	(!A * B)	-0.00002	-0.00001	0.00003
	S0	(!A * B)	0.00002	0.00003	0.00004
	S0	(!A * B)	0.00606	0.00823	0.01893

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00041	0.00129	0.00674
	(B * S0 * Y) + (!B * S0 * !Y)	0.00017	0.00019	0.00020
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00019
	(B * S0 * Y) + (!B * S0 * !Y)	0.00283	0.00453	0.01000

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00335	0.00525	0.01123
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00017
	(B * S0 * Y) + (!B * S0 * !Y)	0.00019	0.00019	0.00020
	(B * S0 * Y) + (!B * S0 * !Y)	0.00012	0.00200	0.00797

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	0.00161	0.00711
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00019	0.00020	0.00022
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00020	-0.00019	-0.00019
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00314	0.00487	0.01037

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00288	0.00479	0.01081
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00020	-0.00019	-0.00018
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00019	0.00019	0.00020
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00037	0.00153	0.00755

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(A * B * Y)	-0.00018	0.00025	0.00183
	(A * B * Y)	0.00002	0.00003	0.00004
	(A * B * Y)	-0.00003	-0.00002	0.00000
	(A * B * Y)	0.00317	0.00361	0.00519
	(!A * !B * !Y)	-0.00014	0.00031	0.00191
	(!A * !B * !Y)	0.00000	0.00002	0.00003
	(!A * !B * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !B * !Y)	0.00320	0.00364	0.00526

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7L	(A * B * Y)	0.00305	0.00356	0.00532
	(A * B * Y)	-0.00003	-0.00003	-0.00002
	(A * B * Y)	0.00000	0.00002	0.00004
	(A * B * Y)	-0.00028	0.00022	0.00197
	(!A * !B * !Y)	0.00298	0.00349	0.00524
	(!A * !B * !Y)	-0.00003	-0.00002	0.00001
	(!A * !B * !Y)	0.00001	0.00003	0.00003
	(!A * !B * !Y)	-0.00034	0.00015	0.00189

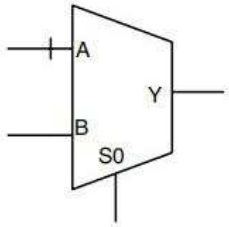
MUX2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1H7L	0.00062	0.00073	0.00184	0.06111

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1H7L	0.00000	2.17335	3.11553

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7L	A->Y (RR)	-	0.03728	0.16576	0.48124
	B->Y (RR)	-	0.03737	0.16589	0.48148
	S0->Y (RR)	(!A * B)	0.03173	0.15763	0.47049
	S0->Y (FR)	(A * !B)	0.05242	0.19636	0.55281

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7L	A->Y (FF)	-	0.04729	0.15991	0.43418
	B->Y (FF)	-	0.04951	0.16128	0.43489
	S0->Y (FF)	(!A * B)	0.03905	0.15023	0.42630
	S0->Y (RF)	(A * !B)	0.05563	0.14079	0.33529

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7L	A	-	0.00059	0.00075	0.00137
	A	-	0.00004	0.00004	0.00004
	A	-	-0.00004	-0.00004	-0.00004
	A	-	0.00131	0.00147	0.00209
	B	-	0.00042	0.00058	0.00120
	B	-	0.00004	0.00004	0.00004
	B	-	-0.00004	-0.00004	-0.00001
	B	-	0.00120	0.00137	0.00198
	S0	(A * !B)	0.00157	0.00191	0.00299
	S0	(A * !B)	0.00003	0.00003	0.00003
	S0	(A * !B)	-0.00003	-0.00002	-0.00001
	S0	(A * !B)	0.00086	0.00120	0.00230
	S0	(!A * B)	0.00034	0.00086	0.00270
	S0	(!A * B)	0.00005	0.00005	0.00005
	S0	(!A * B)	-0.00005	-0.00004	-0.00001
	S0	(!A * B)	0.00177	0.00230	0.00415

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7L	A	-	0.00115	0.00133	0.00206
	A	-	-0.00004	-0.00004	-0.00003
	A	-	0.00004	0.00004	0.00004
	A	-	0.00043	0.00060	0.00133
	B	-	0.00133	0.00150	0.00223
	B	-	-0.00004	-0.00004	-0.00002
	B	-	0.00004	0.00004	0.00004
	B	-	0.00055	0.00071	0.00144
	S0	(A * !B)	0.00105	0.00134	0.00231
	S0	(A * !B)	-0.00003	-0.00001	0.00001
	S0	(A * !B)	0.00002	0.00003	0.00007
	S0	(A * !B)	0.00176	0.00204	0.00303
	S0	(!A * B)	0.00168	0.00225	0.00430
	S0	(!A * B)	-0.00004	-0.00004	0.00001
	S0	(!A * B)	0.00006	0.00006	0.00006
	S0	(!A * B)	0.00024	0.00081	0.00286

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00000	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00000	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00010	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00012	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(A * B * Y)	-0.00009	0.00018	0.00110
	(A * B * Y)	0.00001	0.00001	0.00002
	(A * B * Y)	-0.00001	-0.00001	-0.00000
	(A * B * Y)	0.00100	0.00127	0.00219
	(!A * !B * !Y)	-0.00011	0.00016	0.00109
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00097	0.00124	0.00217

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7L	(A * B * Y)	0.00084	0.00115	0.00216
	(A * B * Y)	-0.00001	-0.00001	-0.00001
	(A * B * Y)	0.00000	0.00001	0.00002
	(A * B * Y)	-0.00024	0.00006	0.00107
	(!A * !B * !Y)	0.00086	0.00116	0.00217
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00001
	(!A * !B * !Y)	-0.00022	0.00008	0.00109

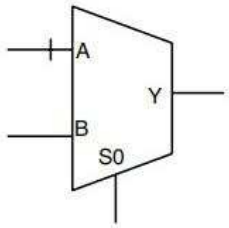
MUX2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1P4H7L	0.00062	0.00074	0.00184	0.06981

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1P4H7L	0.00000	2.25212	3.13843

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7L	A->Y (RR)	-	0.03693	0.16636	0.48330
	B->Y (RR)	-	0.03704	0.16649	0.48335
	S0->Y (RR)	(!A * B)	0.03140	0.15839	0.47205
	S0->Y (FR)	(A * !B)	0.05203	0.19658	0.55369

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7L	A->Y (FF)	-	0.04733	0.16046	0.43478
	B->Y (FF)	-	0.04954	0.16183	0.43548
	S0->Y (FF)	(!A * B)	0.03913	0.15094	0.42741
	S0->Y (RF)	(A * !B)	0.05554	0.14099	0.33487

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7L	A	-	0.00061	0.00078	0.00144
	A	-	0.00004	0.00004	0.00004
	A	-	-0.00004	-0.00004	-0.00004
	A	-	0.00132	0.00150	0.00215
	B	-	0.00045	0.00062	0.00126
	B	-	0.00004	0.00004	0.00004
	B	-	-0.00004	-0.00004	-0.00001
	B	-	0.00124	0.00140	0.00205
	S0	(A * !B)	0.00160	0.00194	0.00301
	S0	(A * !B)	0.00002	0.00002	0.00002
	S0	(A * !B)	-0.00003	-0.00001	0.00000
	S0	(A * !B)	0.00088	0.00122	0.00232
	S0	(!A * B)	0.00037	0.00090	0.00279
	S0	(!A * B)	0.00005	0.00005	0.00005
	S0	(!A * B)	-0.00004	-0.00004	-0.00004
	S0	(!A * B)	0.00180	0.00233	0.00422

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7L	A	-	0.00119	0.00136	0.00214
	A	-	-0.00004	-0.00004	-0.00003
	A	-	0.00004	0.00004	0.00004
	A	-	0.00047	0.00064	0.00142
	B	-	0.00137	0.00154	0.00231
	B	-	-0.00004	-0.00003	-0.00001
	B	-	0.00004	0.00004	0.00004
	B	-	0.00058	0.00075	0.00152
	S0	(A * !B)	0.00109	0.00137	0.00236
	S0	(A * !B)	-0.00002	-0.00001	0.00001
	S0	(A * !B)	0.00000	0.00003	0.00003
	S0	(A * !B)	0.00181	0.00208	0.00305
	S0	(!A * B)	0.00172	0.00229	0.00439
	S0	(!A * B)	-0.00005	-0.00003	-0.00003
	S0	(!A * B)	0.00005	0.00006	0.00006
	S0	(!A * B)	0.00028	0.00085	0.00295

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00010	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00000	0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00010	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00026	0.00027	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00012	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00026	-0.00025	-0.00025

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(A * B * Y)	-0.00009	0.00018	0.00111
	(A * B * Y)	0.00001	0.00001	0.00002
	(A * B * Y)	-0.00001	-0.00001	0.00000
	(A * B * Y)	0.00100	0.00127	0.00220
	(!A * !B * !Y)	-0.00011	0.00016	0.00109
	(!A * !B * !Y)	0.00001	0.00001	0.00001
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00097	0.00124	0.00217

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7L	(A * B * Y)	0.00084	0.00115	0.00216
	(A * B * Y)	-0.00001	-0.00001	-0.00001
	(A * B * Y)	0.00001	0.00001	0.00001
	(A * B * Y)	-0.00024	0.00006	0.00107
	(!A * !B * !Y)	0.00087	0.00117	0.00217
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00022	0.00008	0.00109

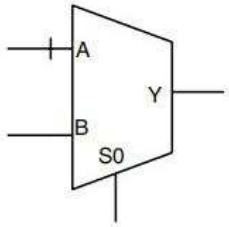
MUX2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X2H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X2H7L	0.00069	0.00084	0.00174	0.09024

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X2H7L	0.00000	3.93912	5.89794

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7L	A->Y (RR)	-	0.04388	0.18065	0.50957
	B->Y (RR)	-	0.04177	0.17722	0.50349
	S0->Y (RR)	(!A * B)	0.03617	0.16899	0.48916
	S0->Y (FR)	(A * !B)	0.05433	0.20634	0.57393

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7L	A->Y (FF)	-	0.04863	0.17076	0.45694
	B->Y (FF)	-	0.04875	0.16822	0.45024
	S0->Y (FF)	(!A * B)	0.04404	0.16339	0.44943
	S0->Y (RF)	(A * !B)	0.04801	0.14777	0.35895

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7L	A	-	0.00097	0.00125	0.00242
	A	-	0.00003	0.00003	0.00004
	A	-	-0.00004	-0.00004	-0.00003
	A	-	0.00177	0.00205	0.00323
	B	-	0.00070	0.00097	0.00214
	B	-	0.00003	0.00003	0.00004
	B	-	-0.00004	-0.00004	-0.00003
	B	-	0.00156	0.00184	0.00301
	S0	(A * !B)	0.00227	0.00274	0.00429
	S0	(A * !B)	-0.00001	-0.00001	0.00000
	S0	(A * !B)	0.00000	0.00001	0.00001
	S0	(A * !B)	0.00138	0.00186	0.00340
	S0	(!A * B)	0.00072	0.00121	0.00316
	S0	(!A * B)	0.00001	0.00002	0.00002
	S0	(!A * B)	-0.00002	-0.00002	-0.00001
	S0	(!A * B)	0.00207	0.00255	0.00451

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7L	A	-	0.00182	0.00213	0.00356
	A	-	-0.00004	-0.00003	-0.00002
	A	-	0.00004	0.00004	0.00004
	A	-	0.00102	0.00132	0.00276
	B	-	0.00197	0.00227	0.00370
	B	-	-0.00004	-0.00003	-0.00003
	B	-	0.00003	0.00004	0.00004
	B	-	0.00111	0.00141	0.00284
	S0	(A * !B)	0.00156	0.00201	0.00353
	S0	(A * !B)	0.00000	0.00001	0.00001
	S0	(A * !B)	-0.00001	-0.00001	0.00000
	S0	(A * !B)	0.00244	0.00290	0.00442
	S0	(!A * B)	0.00234	0.00288	0.00511
	S0	(!A * B)	-0.00002	-0.00002	-0.00001
	S0	(!A * B)	0.00002	0.00002	0.00003
	S0	(!A * B)	0.00100	0.00153	0.00376

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	0.00024	0.00121
	(B * S0 * Y) + (!B * S0 * !Y)	0.00003	0.00003	0.00003
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * Y) + (!B * S0 * !Y)	0.00051	0.00082	0.00179

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00060	0.00093	0.00199
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * Y) + (!B * S0 * !Y)	0.00003	0.00003	0.00003
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00035	0.00142

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	0.00030	0.00129
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00003	0.00003	0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00063	0.00094	0.00193

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00047	0.00081	0.00189
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00003	0.00003	0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00016	0.00018	0.00126

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(A * B * Y)	-0.00009	0.00015	0.00101
	(A * B * Y)	0.00001	0.00001	0.00002
	(A * B * Y)	-0.00002	-0.00001	-0.00001
	(A * B * Y)	0.00102	0.00127	0.00213
	(!A * !B * !Y)	-0.00000	0.00024	0.00111
	(!A * !B * !Y)	0.00000	0.00001	0.00002
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00111	0.00136	0.00222

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7L	(A * B * Y)	0.00114	0.00142	0.00237
	(A * B * Y)	-0.00001	-0.00001	-0.00001
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	0.00002	0.00030	0.00125
	(!A * !B * !Y)	0.00104	0.00131	0.00226
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00007	0.00020	0.00115

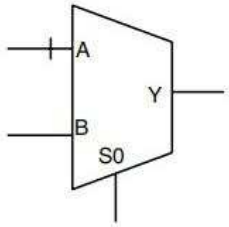
MUX2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X3H7L	0.00076	0.00091	0.00186	0.12739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X3H7L	0.00000	4.51248	6.78200

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7L	A->Y (RR)	-	0.03939	0.17523	0.50190
	B->Y (RR)	-	0.03741	0.17242	0.49676
	S0->Y (RR)	(!A * B)	0.03254	0.16492	0.48343
	S0->Y (FR)	(A * !B)	0.05066	0.20289	0.57085

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7L	A->Y (FF)	-	0.04400	0.16470	0.44634
	B->Y (FF)	-	0.04473	0.16319	0.44155
	S0->Y (FF)	(!A * B)	0.04106	0.15932	0.44174
	S0->Y (RF)	(A * !B)	0.04451	0.14328	0.35103

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7L	A	-	0.00120	0.00154	0.00304
	A	-	0.00003	0.00004	0.00004
	A	-	-0.00004	-0.00004	-0.00004
	A	-	0.00209	0.00244	0.00393
	B	-	0.00088	0.00122	0.00271
	B	-	0.00003	0.00004	0.00004
	B	-	-0.00004	-0.00004	-0.00002
	B	-	0.00181	0.00218	0.00367
	S0	(A * !B)	0.00255	0.00309	0.00483
	S0	(A * !B)	-0.00002	-0.00001	0.00000
	S0	(A * !B)	0.00000	0.00001	0.00004
	S0	(A * !B)	0.00162	0.00216	0.00390
	S0	(!A * B)	0.00092	0.00147	0.00378
	S0	(!A * B)	0.00001	0.00002	0.00003
	S0	(!A * B)	-0.00002	-0.00002	-0.00001
	S0	(!A * B)	0.00233	0.00289	0.00519

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7L	A	-	0.00210	0.00249	0.00433
	A	-	-0.00004	-0.00004	-0.00002
	A	-	0.00004	0.00004	0.00005
	A	-	0.00121	0.00159	0.00343
	B	-	0.00232	0.00269	0.00452
	B	-	-0.00004	-0.00004	-0.00003
	B	-	0.00004	0.00004	0.00005
	B	-	0.00136	0.00173	0.00357
	S0	(A * !B)	0.00186	0.00238	0.00412
	S0	(A * !B)	0.00000	0.00001	0.00002
	S0	(A * !B)	-0.00001	-0.00001	-0.00000
	S0	(A * !B)	0.00279	0.00331	0.00505
	S0	(!A * B)	0.00261	0.00323	0.00586
	S0	(!A * B)	-0.00002	-0.00002	0.00001
	S0	(!A * B)	0.00002	0.00002	0.00003
	S0	(!A * B)	0.00120	0.00181	0.00445

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	0.00029	0.00147
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00004	0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00058	0.00095	0.00213

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00066	0.00107	0.00236
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00004	-0.00004	-0.00003
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00004	0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00042	0.00170

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	0.00036	0.00155
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00003	0.00004	0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	-0.00004	-0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00069	0.00107	0.00226

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00055	0.00096	0.00227
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	-0.00004	-0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00004	0.00004	0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00016	0.00025	0.00155

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(A * B * Y)	-0.00010	0.00015	0.00104
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00108	0.00133	0.00222
	(!A * !B * !Y)	0.00001	0.00026	0.00116
	(!A * !B * !Y)	-0.00000	0.00001	0.00002
	(!A * !B * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !B * !Y)	0.00117	0.00143	0.00233

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7L	(A * B * Y)	0.00119	0.00147	0.00246
	(A * B * Y)	-0.00001	-0.00001	0.00000
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	0.00001	0.00030	0.00128
	(!A * !B * !Y)	0.00107	0.00136	0.00234
	(!A * !B * !Y)	-0.00002	-0.00001	0.00001
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00009	0.00019	0.00117

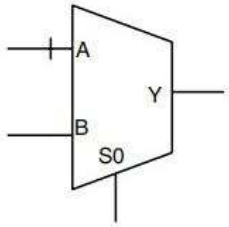
MUX2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X4H7L	0.00085	0.00103	0.00201	0.17358

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X4H7L	0.00000	5.49902	8.31138

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7L	A->Y (RR)	-	0.03911	0.17569	0.50325
	B->Y (RR)	-	0.03704	0.17297	0.49841
	S0->Y (RR)	(!A * B)	0.03267	0.16640	0.48653
	S0->Y (FR)	(A * !B)	0.05096	0.20446	0.57432

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7L	A->Y (FF)	-	0.04423	0.16735	0.45348
	B->Y (FF)	-	0.04515	0.16610	0.44904
	S0->Y (FF)	(!A * B)	0.04258	0.16369	0.45127
	S0->Y (RF)	(A * !B)	0.04498	0.14602	0.35680

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7L	A	-	0.00158	0.00200	0.00392
	A	-	0.00004	0.00004	0.00005
	A	-	-0.00005	-0.00005	-0.00004
	A	-	0.00260	0.00303	0.00494
	B	-	0.00123	0.00164	0.00355
	B	-	0.00004	0.00004	0.00005
	B	-	-0.00005	-0.00005	-0.00004
	B	-	0.00231	0.00273	0.00464
	S0	(A * !B)	0.00307	0.00365	0.00560
	S0	(A * !B)	-0.00002	-0.00002	0.00000
	S0	(A * !B)	-0.00000	0.00001	0.00002
	S0	(A * !B)	0.00206	0.00265	0.00459
	S0	(!A * B)	0.00125	0.00189	0.00465
	S0	(!A * B)	0.00001	0.00001	0.00002
	S0	(!A * B)	-0.00002	-0.00001	0.00004
	S0	(!A * B)	0.00279	0.00342	0.00618

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7L	A	-	0.00262	0.00311	0.00551
	A	-	-0.00005	-0.00004	-0.00001
	A	-	0.00004	0.00005	0.00005
	A	-	0.00161	0.00208	0.00449
	B	-	0.00286	0.00333	0.00572
	B	-	-0.00005	-0.00004	-0.00004
	B	-	0.00004	0.00005	0.00005
	B	-	0.00178	0.00225	0.00464
	S0	(A * !B)	0.00236	0.00295	0.00495
	S0	(A * !B)	0.00000	0.00002	0.00002
	S0	(A * !B)	-0.00002	-0.00001	0.00001
	S0	(A * !B)	0.00335	0.00395	0.00595
	S0	(!A * B)	0.00312	0.00383	0.00702
	S0	(!A * B)	-0.00001	-0.00001	0.00001
	S0	(!A * B)	0.00001	0.00002	0.00002
	S0	(!A * B)	0.00160	0.00229	0.00549

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	0.00034	0.00173
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00005	0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00066	0.00110	0.00249

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00075	0.00123	0.00275
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00005	-0.00005	-0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00005	0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	0.00047	0.00199

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00003	0.00042	0.00181
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00004	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00079	0.00123	0.00263

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00063	0.00112	0.00265
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00005	-0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00005	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00018	0.00031	0.00183

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(A * B * Y)	-0.00010	0.00016	0.00107
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	0.00000
	(A * B * Y)	0.00116	0.00142	0.00234
	(!A * !B * !Y)	-0.00000	0.00026	0.00118
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !B * !Y)	0.00126	0.00152	0.00245

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7L	(A * B * Y)	0.00126	0.00155	0.00257
	(A * B * Y)	-0.00002	-0.00001	-0.00000
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00001	0.00029	0.00130
	(!A * !B * !Y)	0.00116	0.00145	0.00246
	(!A * !B * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00010	0.00018	0.00119

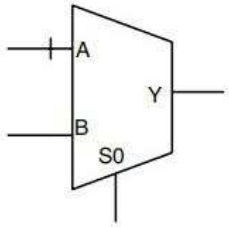
MUX2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X6H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X6H7L	0.00142	0.00141	0.00266	0.25502

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X6H7L	0.00000	7.88725	11.85500

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7L	A->Y (RR)	-	0.04728	0.18876	0.52475
	B->Y (RR)	-	0.04268	0.18297	0.51605
	S0->Y (RR)	(!A * B)	0.03863	0.17725	0.50589
	S0->Y (FR)	(A * !B)	0.05601	0.21313	0.58707

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7L	A->Y (FF)	-	0.05216	0.17913	0.47048
	B->Y (FF)	-	0.05083	0.17497	0.46129
	S0->Y (FF)	(!A * B)	0.04818	0.17270	0.46449
	S0->Y (RF)	(A * !B)	0.04920	0.15385	0.36783

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7L	A	-	0.00244	0.00303	0.00591
	A	-	0.00004	0.00004	0.00005
	A	-	-0.00005	-0.00005	-0.00004
	A	-	0.00400	0.00460	0.00747
	B	-	0.00190	0.00250	0.00540
	B	-	0.00003	0.00004	0.00005
	B	-	-0.00005	-0.00005	-0.00004
	B	-	0.00342	0.00404	0.00693
	S0	(A * !B)	0.00435	0.00511	0.00765
	S0	(A * !B)	-0.00004	-0.00003	-0.00002
	S0	(A * !B)	0.00001	0.00003	0.00004
	S0	(A * !B)	0.00300	0.00377	0.00629
	S0	(!A * B)	0.00206	0.00287	0.00667
	S0	(!A * B)	-0.00000	0.00000	0.00000
	S0	(!A * B)	-0.00001	-0.00001	0.00002
	S0	(!A * B)	0.00399	0.00481	0.00860

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7L	A	-	0.00438	0.00509	0.00865
	A	-	-0.00004	-0.00004	0.00000
	A	-	0.00004	0.00005	0.00005
	A	-	0.00284	0.00350	0.00709
	B	-	0.00449	0.00520	0.00877
	B	-	-0.00005	-0.00004	0.00000
	B	-	0.00004	0.00005	0.00006
	B	-	0.00299	0.00367	0.00724
	S0	(A * !B)	0.00357	0.00435	0.00699
	S0	(A * !B)	0.00002	0.00003	0.00004
	S0	(A * !B)	-0.00003	-0.00003	-0.00001
	S0	(A * !B)	0.00491	0.00570	0.00835
	S0	(!A * B)	0.00458	0.00549	0.00979
	S0	(!A * B)	-0.00000	-0.00000	0.00000
	S0	(!A * B)	0.00000	0.00001	0.00001
	S0	(!A * B)	0.00265	0.00354	0.00786

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00013	0.00043	0.00231
	(B * S0 * Y) + (!B * S0 * !Y)	0.00006	0.00006	0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	0.00115	0.00171	0.00360

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00149	0.00212	0.00417
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	-0.00006	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00006	0.00006	0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00084	0.00289

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00003	0.00056	0.00248
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00006	0.00006	0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00006	-0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00121	0.00179	0.00371

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00122	0.00187	0.00396
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00006	-0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00006	0.00006	0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	0.00064	0.00273

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(A * B * Y)	-0.00011	0.00017	0.00117
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	0.00001
	(A * B * Y)	0.00153	0.00181	0.00282
	(!A * !B * !Y)	-0.00005	0.00024	0.00125
	(!A * !B * !Y)	-0.00000	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * !Y)	0.00159	0.00187	0.00289

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7L	(A * B * Y)	0.00152	0.00184	0.00296
	(A * B * Y)	-0.00002	-0.00001	-0.00000
	(A * B * Y)	0.00002	0.00002	0.00004
	(A * B * Y)	-0.00013	0.00019	0.00131
	(!A * !B * !Y)	0.00143	0.00176	0.00288
	(!A * !B * !Y)	-0.00002	-0.00001	0.00001
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00020	0.00013	0.00123

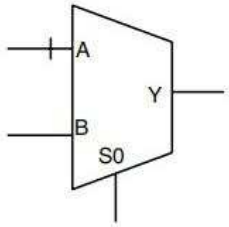
MUX2X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X8H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X8H7L	0.00180	0.00185	0.00354	0.33781

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X8H7L	0.00000	10.62250	16.01790

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7L	A->Y (RR)	-	0.03863	0.17594	0.50443
	B->Y (RR)	-	0.03533	0.17183	0.49751
	S0->Y (RR)	(!A * B)	0.03163	0.16609	0.48720
	S0->Y (FR)	(A * !B)	0.04647	0.19879	0.56622

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7L	A->Y (FF)	-	0.04385	0.16722	0.45294
	B->Y (FF)	-	0.04328	0.16439	0.44645
	S0->Y (FF)	(!A * B)	0.04047	0.16173	0.44855
	S0->Y (RF)	(A * !B)	0.04181	0.14123	0.34821

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7L	A	-	0.00299	0.00383	0.00763
	A	-	0.00008	0.00009	0.00010
	A	-	-0.00010	-0.00010	-0.00009
	A	-	0.00503	0.00587	0.00968
	B	-	0.00231	0.00315	0.00701
	B	-	0.00007	0.00009	0.00010
	B	-	-0.00010	-0.00010	-0.00009
	B	-	0.00436	0.00523	0.00906
	S0	(A * !B)	0.00542	0.00662	0.01047
	S0	(A * !B)	-0.00004	-0.00003	-0.00001
	S0	(A * !B)	0.00002	0.00002	0.00004
	S0	(A * !B)	0.00365	0.00484	0.00870
	S0	(!A * B)	0.00248	0.00374	0.00921
	S0	(!A * B)	0.00000	0.00002	0.00004
	S0	(!A * B)	-0.00003	-0.00003	-0.00001
	S0	(!A * B)	0.00508	0.00635	0.01183

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7L	A	-	0.00540	0.00635	0.01110
	A	-	-0.00010	-0.00009	-0.00008
	A	-	0.00009	0.00010	0.00010
	A	-	0.00336	0.00428	0.00905
	B	-	0.00565	0.00660	0.01136
	B	-	-0.00010	-0.00009	-0.00007
	B	-	0.00010	0.00010	0.00010
	B	-	0.00360	0.00453	0.00930
	S0	(A * !B)	0.00443	0.00560	0.00956
	S0	(A * !B)	0.00002	0.00003	0.00005
	S0	(A * !B)	-0.00003	-0.00002	-0.00002
	S0	(A * !B)	0.00620	0.00737	0.01133
	S0	(!A * B)	0.00568	0.00707	0.01330
	S0	(!A * B)	-0.00002	-0.00002	0.00000
	S0	(!A * B)	0.00002	0.00003	0.00004
	S0	(!A * B)	0.00308	0.00445	0.01069

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	0.00063	0.00333
	(B * S0 * Y) + (!B * S0 * !Y)	0.00010	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	-0.00010	-0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00144	0.00226	0.00497

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(B * S0 * Y) + (!B * S0 * !Y)	0.00179	0.00273	0.00570
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	-0.00009	-0.00008
	(B * S0 * Y) + (!B * S0 * !Y)	0.00010	0.00010	0.00010
	(B * S0 * Y) + (!B * S0 * !Y)	0.00017	0.00110	0.00406

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00007	0.00078	0.00352
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00008	0.00009	0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00010	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00157	0.00242	0.00516

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00152	0.00247	0.00546
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00009	-0.00008
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00010	0.00014	0.00042
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00048	0.00077	0.00382

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(A * B * Y)	-0.00017	0.00034	0.00212
	(A * B * Y)	0.00002	0.00003	0.00003
	(A * B * Y)	-0.00003	-0.00002	0.00001
	(A * B * Y)	0.00200	0.00253	0.00432
	(!A * !B * !Y)	-0.00008	0.00045	0.00224
	(!A * !B * !Y)	0.00001	0.00003	0.00004
	(!A * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !B * !Y)	0.00211	0.00263	0.00443

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7L	(A * B * Y)	0.00197	0.00255	0.00452
	(A * B * Y)	-0.00003	-0.00003	-0.00002
	(A * B * Y)	-0.00000	0.00002	0.00004
	(A * B * Y)	-0.00023	0.00036	0.00232
	(!A * !B * !Y)	0.00185	0.00243	0.00439
	(!A * !B * !Y)	-0.00003	-0.00002	0.00001
	(!A * !B * !Y)	0.00002	0.00003	0.00004
	(!A * !B * !Y)	-0.00034	0.00025	0.00221

MUX4X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P5H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P5H7L	0.00068	0.00065	0.00061	0.00069	0.00269	0.00164	0.04544

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P5H7L	0.00000	4.12182	6.72026

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7L	A->Y (RR)	0.06379	0.20100	0.53401
	B->Y (RR)	0.06211	0.19993	0.53349
	C->Y (RR)	0.06882	0.20952	0.54890
	D->Y (RR)	0.06848	0.20942	0.54913
	S0->Y (-R)	0.09343	0.24965	0.62728
	S1->Y (-R)	0.05491	0.20401	0.56795

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7L	A->Y (FF)	0.07962	0.20394	0.49771
	B->Y (FF)	0.07908	0.20361	0.49747
	C->Y (FF)	0.08842	0.21671	0.51731
	D->Y (FF)	0.09048	0.21816	0.51814
	S0->Y (-F)	0.08528	0.21533	0.52241
	S1->Y (-F)	0.04257	0.16032	0.44569

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	A	0.00080	0.00093	0.00146
	A	0.00009	0.00009	0.00009
	A	-0.00010	-0.00010	-0.00007
	A	0.00186	0.00200	0.00253
	B	0.00062	0.00075	0.00129
	B	0.00009	0.00010	0.00010
	B	-0.00010	-0.00010	-0.00007
	B	0.00167	0.00182	0.00235
	C	0.00058	0.00070	0.00122
	C	0.00009	0.00009	0.00009
	C	-0.00010	-0.00010	-0.00005
	C	0.00170	0.00182	0.00234
	D	0.00036	0.00048	0.00099
	D	0.00009	0.00009	0.00009
	D	-0.00010	-0.00010	-0.00008
	D	0.00153	0.00166	0.00217
	S0	0.00319	0.00366	0.00532
	S0	0.00004	0.00006	0.00081
	S0	-0.00005	-0.00001	0.00007
	S0	0.00332	0.00401	0.00634
	S1	0.00162	0.00208	0.00356
	S1	0.00003	0.00003	0.00004
	S1	-0.00001	0.00000	0.00007
	S1	0.00155	0.00202	0.00366

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	A	0.00171	0.00185	0.00250
	A	-0.00009	-0.00009	-0.00009
	A	0.00010	0.00010	0.00015
	A	0.00060	0.00077	0.00143
	B	0.00188	0.00202	0.00268
	B	-0.00010	-0.00009	-0.00008
	B	0.00010	0.00010	0.00010
	B	0.00081	0.00095	0.00161
	C	0.00225	0.00240	0.00305
	C	-0.00009	-0.00009	-0.00009
	C	0.00010	0.00010	0.00010
	C	0.00113	0.00128	0.00193
	D	0.00249	0.00263	0.00327
	D	-0.00009	-0.00009	-0.00009
	D	0.00008	0.00010	0.00013
	D	0.00130	0.00145	0.00210
	S0	0.00361	0.00458	0.01553
	S0	0.00001	0.00001	0.00004
	S0	0.00017	0.00017	0.00023
	S0	0.00351	0.00396	0.00556
	S1	0.00166	0.00215	0.00399
	S1	-0.00001	-0.00000	0.00002
	S1	0.00000	0.00001	0.00009
	S1	0.00196	0.00238	0.00376

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00025	0.00075
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00097	0.00111	0.00160
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00092	0.00107	0.00162
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00022	0.00077
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	0.00007	0.00058
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00078	0.00092	0.00142
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00124	0.00179
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00024	0.00040	0.00095
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00019	0.00020	0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00030	0.00042	0.00088
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00119	0.00131	0.00177

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00019	-0.00019	-0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00113	0.00126	0.00176
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00037	0.00087

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00020	0.00065
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00103	0.00115	0.00160
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00136	0.00149	0.00199
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00008	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00041	0.00054	0.00104
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00008	0.00014	0.00097
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00001	-0.00001	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00149	0.00172	0.00254
	(A * B * C * !D * !S1 * Y)	0.00114	0.00136	0.00221
	(A * B * C * !D * !S1 * Y)	-0.00004	-0.00004	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00001	0.00004	0.00005
	(A * B * C * !D * !S1 * Y)	0.00220	0.00243	0.00325
	(A * B * !C * D * !S1 * Y)	-0.00000	0.00042	0.00193
	(A * B * !C * D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00007	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00207	0.00250	0.00401
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	0.00018	0.00100
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00174	0.00256
	(A * !B * C * D * S1 * Y)	0.00088	0.00111	0.00198
	(A * !B * C * D * S1 * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * C * D * S1 * Y)	0.00003	0.00005	0.00008
	(A * !B * C * D * S1 * Y)	0.00203	0.00226	0.00311
	(A * !B * !C * !D * S1 * !Y)	0.00078	0.00102	0.00188
	(A * !B * !C * !D * S1 * !Y)	-0.00005	-0.00004	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00005	0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00215	0.00300
	(!A * B * C * D * S1 * Y)	-0.00015	0.00030	0.00188
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * D * S1 * Y)	0.00183	0.00228	0.00386
	(!A * B * !C * !D * S1 * !Y)	0.00001	0.00046	0.00204
	(!A * B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00197	0.00242	0.00401
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00123	0.00208
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00004	-0.00001
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00005	0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00204	0.00227	0.00310
	(!A * !B * !C * D * !S1 * !Y)	0.00018	0.00060	0.00212
	(!A * !B * !C * D * !S1 * !Y)	0.00005	0.00007	0.00007
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00224	0.00266	0.00418

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00133	0.00160	0.00251
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00001	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00025	0.00002	0.00093
	(A * B * C * !D * !S1 * Y)	0.00178	0.00206	0.00301
	(A * B * C * !D * !S1 * Y)	0.00004	0.00005	0.00006
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00001
	(A * B * C * !D * !S1 * Y)	0.00073	0.00101	0.00198
	(A * B * !C * D * !S1 * Y)	0.00209	0.00256	0.00422
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00007	0.00008	0.00009
	(A * B * !C * D * !S1 * Y)	0.00000	0.00048	0.00214
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00130	0.00156	0.00247
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00002	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00027	0.00000	0.00091
	(A * !B * C * D * S1 * Y)	0.00160	0.00187	0.00284
	(A * !B * C * D * S1 * Y)	0.00004	0.00005	0.00006
	(A * !B * C * D * S1 * Y)	-0.00005	-0.00004	-0.00002
	(A * !B * C * D * S1 * Y)	0.00045	0.00072	0.00172
	(A * !B * !C * !D * S1 * !Y)	0.00170	0.00197	0.00293
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00004	0.00006
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00005	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00055	0.00083	0.00182
	(!A * B * C * D * S1 * Y)	0.00190	0.00240	0.00413
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00009	0.00042	0.00215
	(!A * B * !C * !D * S1 * !Y)	0.00174	0.00224	0.00396
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00007	0.00007
	(!A * B * !C * !D * S1 * !Y)	-0.00023	0.00028	0.00199
	(!A * !B * C * !D * !S1 * !Y)	0.00192	0.00220	0.00314
	(!A * !B * C * !D * !S1 * !Y)	0.00001	0.00004	0.00006
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00089	0.00116	0.00213
	(!A * !B * !C * D * !S1 * !Y)	0.00191	0.00238	0.00403
	(!A * !B * !C * D * !S1 * !Y)	-0.00007	-0.00006	-0.00005
	(!A * !B * !C * D * !S1 * !Y)	0.00007	0.00007	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00016	0.00032	0.00197

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00108
	(B * D * S0 * Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y)	-0.00001	-0.00001	0.00000
	(B * D * S0 * Y)	0.00091	0.00119	0.00210
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00108
	(A * C * !S0 * Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y)	-0.00001	-0.00001	0.00000
	(A * C * !S0 * Y)	0.00091	0.00118	0.00210
	(!B * !D * S0 * !Y)	-0.00000	0.00027	0.00119
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00100	0.00128	0.00221
	(!A * !C * !S0 * !Y)	-0.00000	0.00027	0.00119
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00101	0.00128	0.00221

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7L	(B * D * S0 * Y)	0.00088	0.00119	0.00220
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y)	0.00000	0.00001	0.00002
	(B * D * S0 * Y)	-0.00013	0.00017	0.00118
	(A * C * !S0 * Y)	0.00088	0.00119	0.00220
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y)	-0.00013	0.00018	0.00118
	(!B * !D * S0 * !Y)	0.00077	0.00108	0.00209
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(!B * !D * S0 * !Y)	-0.00023	0.00007	0.00108
	(!A * !C * !S0 * !Y)	0.00077	0.00108	0.00209
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !S0 * !Y)	-0.00024	0.00007	0.00108

MUX4X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P7H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P7H7L	0.00068	0.00065	0.00061	0.00069	0.00269	0.00161	0.05167

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P7H7L	0.00000	4.16361	6.79206

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7L	A->Y (RR)	0.06292	0.20095	0.53527
	B->Y (RR)	0.06122	0.19987	0.53465
	C->Y (RR)	0.06803	0.20965	0.55111
	D->Y (RR)	0.06768	0.20954	0.55077
	S0->Y (-R)	0.09263	0.24965	0.62822
	S1->Y (-R)	0.05409	0.20399	0.56880

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7L	A->Y (FF)	0.07887	0.20354	0.49672
	B->Y (FF)	0.07834	0.20321	0.49654
	C->Y (FF)	0.08781	0.21658	0.51665
	D->Y (FF)	0.08990	0.21804	0.51762
	S0->Y (-F)	0.08469	0.21521	0.52199
	S1->Y (-F)	0.04163	0.15977	0.44467

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	A	0.00083	0.00096	0.00151
	A	0.00009	0.00009	0.00010
	A	-0.00010	-0.00010	-0.00007
	A	0.00187	0.00202	0.00257
	B	0.00065	0.00078	0.00134
	B	0.00008	0.00009	0.00009
	B	-0.00010	-0.00010	-0.00010
	B	0.00170	0.00184	0.00239
	C	0.00061	0.00073	0.00127
	C	0.00008	0.00009	0.00009
	C	-0.00010	-0.00010	-0.00010
	C	0.00171	0.00184	0.00237
	D	0.00038	0.00051	0.00104
	D	0.00009	0.00009	0.00009
	D	-0.00010	-0.00010	-0.00007
	D	0.00155	0.00167	0.00221
	S0	0.00321	0.00368	0.00535
	S0	0.00015	0.00016	0.00020
	S0	0.00000	0.00001	0.00002
	S0	0.00273	0.00458	0.06887
	S1	0.00163	0.00210	0.00357
	S1	0.00002	0.00003	0.00004
	S1	-0.00001	0.00000	0.00007
	S1	0.00154	0.00202	0.00369

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	A	0.00172	0.00187	0.00256
	A	-0.00009	-0.00009	-0.00009
	A	0.00009	0.00010	0.00010
	A	0.00065	0.00080	0.00149
	B	0.00189	0.00204	0.00273
	B	-0.00009	-0.00009	-0.00008
	B	0.00010	0.00010	0.00010
	B	0.00084	0.00098	0.00167
	C	0.00228	0.00243	0.00311
	C	-0.00009	-0.00009	-0.00008
	C	0.00010	0.00010	0.00010
	C	0.00116	0.00132	0.00200
	D	0.00251	0.00266	0.00334
	D	-0.00009	-0.00009	-0.00008
	D	0.00007	0.00010	0.00013
	D	0.00133	0.00149	0.00218
	S0	0.00365	0.00437	0.00705
	S0	-0.00005	-0.00002	0.00005
	S0	0.00016	0.00019	0.00023
	S0	0.00355	0.00400	0.00561
	S1	0.00167	0.00217	0.00403
	S1	-0.00001	-0.00000	0.00002
	S1	0.00003	0.00003	0.00004
	S1	0.00199	0.00244	0.00380

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00025	0.00075
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00097	0.00111	0.00160
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00092	0.00107	0.00162
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00022	0.00077
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00007	0.00007	0.00058
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00078	0.00092	0.00142
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00124	0.00179
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00024	0.00040	0.00095
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00019	0.00020	0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00031	0.00043	0.00089
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00120	0.00132	0.00178

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00019	-0.00019	-0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00112	0.00126	0.00176
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00036	0.00087

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00020	0.00066
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00104	0.00116	0.00161
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00136	0.00149	0.00199
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00008	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00041	0.00054	0.00104
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00008	0.00014	0.00097
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00001	-0.00001	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00149	0.00172	0.00255
	(A * B * C * !D * !S1 * Y)	0.00114	0.00136	0.00220
	(A * B * C * !D * !S1 * Y)	-0.00004	-0.00004	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00001	0.00004	0.00005
	(A * B * C * !D * !S1 * Y)	0.00219	0.00243	0.00325
	(A * B * !C * D * !S1 * Y)	0.00000	0.00042	0.00193
	(A * B * !C * D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00007	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00207	0.00250	0.00402
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	0.00018	0.00100
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00174	0.00257
	(A * !B * C * D * S1 * Y)	0.00088	0.00111	0.00198
	(A * !B * C * D * S1 * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * C * D * S1 * Y)	0.00003	0.00005	0.00008
	(A * !B * C * D * S1 * Y)	0.00203	0.00226	0.00311
	(A * !B * !C * !D * S1 * !Y)	0.00078	0.00102	0.00188
	(A * !B * !C * !D * S1 * !Y)	-0.00005	-0.00004	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00005	0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00215	0.00300
	(!A * B * C * D * S1 * Y)	-0.00015	0.00030	0.00188
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * D * S1 * Y)	0.00183	0.00228	0.00386
	(!A * B * !C * !D * S1 * !Y)	0.00001	0.00046	0.00204
	(!A * B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00197	0.00242	0.00401
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00123	0.00207
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00004	-0.00003
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00005	0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00204	0.00227	0.00310
	(!A * !B * !C * D * !S1 * !Y)	0.00018	0.00061	0.00212
	(!A * !B * !C * D * !S1 * !Y)	0.00005	0.00007	0.00007
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00224	0.00267	0.00419

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00133	0.00160	0.00251
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00001	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00025	0.00002	0.00093
	(A * B * C * !D * !S1 * Y)	0.00179	0.00207	0.00302
	(A * B * C * !D * !S1 * Y)	0.00004	0.00004	0.00006
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00001
	(A * B * C * !D * !S1 * Y)	0.00073	0.00102	0.00199
	(A * B * !C * D * !S1 * Y)	0.00209	0.00256	0.00422
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00007	0.00008	0.00009
	(A * B * !C * D * !S1 * Y)	0.00000	0.00048	0.00214
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00130	0.00156	0.00247
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00027	0.00000	0.00091
	(A * !B * C * D * S1 * Y)	0.00160	0.00187	0.00284
	(A * !B * C * D * S1 * Y)	0.00004	0.00005	0.00006
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00004	-0.00002
	(A * !B * C * D * S1 * Y)	0.00045	0.00072	0.00172
	(A * !B * !C * !D * S1 * !Y)	0.00170	0.00197	0.00293
	(A * !B * !C * !D * S1 * !Y)	0.00004	0.00005	0.00006
	(A * !B * !C * !D * S1 * !Y)	-0.00005	-0.00005	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00055	0.00084	0.00182
	(!A * B * C * D * S1 * Y)	0.00190	0.00240	0.00413
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00009	0.00043	0.00215
	(!A * B * !C * !D * S1 * !Y)	0.00174	0.00224	0.00396
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00023	0.00028	0.00199
	(!A * !B * C * !D * !S1 * !Y)	0.00193	0.00220	0.00315
	(!A * !B * C * !D * !S1 * !Y)	0.00003	0.00005	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00089	0.00117	0.00213
	(!A * !B * !C * D * !S1 * !Y)	0.00190	0.00238	0.00403
	(!A * !B * !C * D * !S1 * !Y)	-0.00007	-0.00006	-0.00005
	(!A * !B * !C * D * !S1 * !Y)	0.00007	0.00007	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00016	0.00032	0.00196

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00108
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00090	0.00117	0.00209
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00108
	(A * C * !S0 * Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y)	0.00090	0.00117	0.00209
	(!B * !D * S0 * !Y)	0.00001	0.00029	0.00120
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00100	0.00128	0.00221
	(!A * !C * !S0 * !Y)	0.00001	0.00029	0.00121
	(!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00101	0.00128	0.00221

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7L	(B * D * S0 * Y)	0.00088	0.00119	0.00220
	(B * D * S0 * Y)	-0.00002	-0.00001	0.00000
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00011	0.00019	0.00119
	(A * C * !S0 * Y)	0.00088	0.00119	0.00220
	(A * C * !S0 * Y)	-0.00001	-0.00001	0.00000
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00012	0.00019	0.00120
	(!B * !D * S0 * !Y)	0.00076	0.00107	0.00208
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00023	0.00007	0.00108
	(!A * !C * !S0 * !Y)	0.00077	0.00107	0.00208
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00023	0.00007	0.00108

MUX4X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1H7L	0.00068	0.00065	0.00060	0.00069	0.00270	0.00164	0.06135

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1H7L	0.00000	4.23425	6.91247

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7L	A->Y (RR)	0.06227	0.20122	0.53710
	B->Y (RR)	0.06058	0.20016	0.53599
	C->Y (RR)	0.06742	0.20999	0.55272
	D->Y (RR)	0.06709	0.20992	0.55277
	S0->Y (-R)	0.09230	0.25010	0.62912
	S1->Y (-R)	0.05305	0.20364	0.56880

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7L	A->Y (FF)	0.07883	0.20541	0.50166
	B->Y (FF)	0.07827	0.20507	0.50144
	C->Y (FF)	0.08775	0.21851	0.52198
	D->Y (FF)	0.08984	0.21998	0.52271
	S0->Y (-F)	0.08470	0.21722	0.52695
	S1->Y (-F)	0.04197	0.16237	0.45092

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7L	A	0.00087	0.00100	0.00158
	A	0.00009	0.00009	0.00009
	A	-0.00010	-0.00009	-0.00008
	A	0.00192	0.00206	0.00264
	B	0.00068	0.00082	0.00141
	B	0.00006	0.00009	0.00009
	B	-0.00010	-0.00009	-0.00008
	B	0.00172	0.00187	0.00246
	C	0.00065	0.00077	0.00135
	C	0.00009	0.00009	0.00009
	C	-0.00010	-0.00009	-0.00008
	C	0.00176	0.00188	0.00246
	D	0.00043	0.00055	0.00112
	D	0.00009	0.00009	0.00009
	D	-0.00009	-0.00009	-0.00009
	D	0.00160	0.00172	0.00229
	S0	0.00327	0.00374	0.00541
	S0	0.00018	0.00018	0.00018
	S0	-0.00000	0.00002	0.00005
	S0	0.00342	0.00408	0.00648
	S1	0.00167	0.00214	0.00362
	S1	0.00002	0.00003	0.00004
	S1	-0.00000	0.00001	0.00006
	S1	0.00160	0.00207	0.00379

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7L	A	0.00177	0.00192	0.00266
	A	-0.00009	-0.00009	-0.00007
	A	0.00008	0.00010	0.00010
	A	0.00070	0.00086	0.00160
	B	0.00194	0.00209	0.00283
	B	-0.00009	-0.00009	-0.00006
	B	0.00009	0.00010	0.00010
	B	0.00088	0.00103	0.00178
	C	0.00232	0.00248	0.00322
	C	-0.00009	-0.00009	-0.00007
	C	0.00009	0.00010	0.00010
	C	0.00120	0.00136	0.00211
	D	0.00255	0.00271	0.00344
	D	-0.00009	-0.00009	-0.00009
	D	0.00009	0.00009	0.00009
	D	0.00138	0.00154	0.00228
	S0	0.00371	0.00444	0.00718
	S0	-0.00000	0.00002	0.00005
	S0	0.00011	0.00016	0.00022
	S0	0.00359	0.00404	0.00568
	S1	0.00172	0.00222	0.00414
	S1	-0.00000	0.00000	0.00003
	S1	0.00003	0.00003	0.00005
	S1	0.00202	0.00245	0.00385

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00025	0.00075
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00097	0.00111	0.00160
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00092	0.00107	0.00162
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00022	0.00077
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00007	0.00007	0.00058
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00008	-0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00078	0.00092	0.00142
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00124	0.00179
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00008	0.00008	0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00025	0.00040	0.00095
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00020	0.00020	0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00031	0.00043	0.00088
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00007	0.00007	0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00121	0.00133	0.00178

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00019	-0.00019	-0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00113	0.00127	0.00177
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00036	0.00087

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00020	0.00066
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00104	0.00116	0.00161
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00136	0.00150	0.00199
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00041	0.00054	0.00104
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00008	0.00014	0.00096
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00001	-0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00150	0.00173	0.00255
	(A * B * C * !D * !S1 * Y)	0.00114	0.00136	0.00221
	(A * B * C * !D * !S1 * Y)	-0.00004	-0.00004	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00002	0.00004	0.00005
	(A * B * C * !D * !S1 * Y)	0.00220	0.00243	0.00325
	(A * B * !C * D * !S1 * Y)	0.00000	0.00042	0.00193
	(A * B * !C * D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00007	-0.00007
	(A * B * !C * D * !S1 * Y)	0.00210	0.00252	0.00402
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00006	0.00017	0.00100
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00174	0.00257
	(A * !B * C * D * S1 * Y)	0.00088	0.00111	0.00197
	(A * !B * C * D * S1 * Y)	-0.00004	-0.00004	-0.00002
	(A * !B * C * D * S1 * Y)	0.00004	0.00005	0.00008
	(A * !B * C * D * S1 * Y)	0.00205	0.00227	0.00311
	(A * !B * !C * !D * S1 * !Y)	0.00078	0.00102	0.00188
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00004	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00005	0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00193	0.00216	0.00301
	(!A * B * C * D * S1 * Y)	-0.00015	0.00030	0.00187
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * D * S1 * Y)	0.00184	0.00229	0.00386
	(!A * B * !C * !D * S1 * !Y)	0.00001	0.00046	0.00203
	(!A * B * !C * !D * S1 * !Y)	0.00005	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00198	0.00243	0.00401
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00123	0.00207
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00005	0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00205	0.00227	0.00311
	(!A * !B * !C * D * !S1 * !Y)	0.00018	0.00061	0.00212
	(!A * !B * !C * D * !S1 * !Y)	0.00005	0.00007	0.00009
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00005
	(!A * !B * !C * D * !S1 * !Y)	0.00226	0.00268	0.00420

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00135	0.00161	0.00252
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00001	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00023	0.00003	0.00093
	(A * B * C * !D * !S1 * Y)	0.00181	0.00208	0.00303
	(A * B * C * !D * !S1 * Y)	0.00003	0.00004	0.00004
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00002
	(A * B * C * !D * !S1 * Y)	0.00074	0.00102	0.00199
	(A * B * !C * D * !S1 * Y)	0.00211	0.00258	0.00423
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00007	0.00008	0.00010
	(A * B * !C * D * !S1 * Y)	0.00001	0.00048	0.00213
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00131	0.00157	0.00248
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00000	0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00025	0.00001	0.00091
	(A * !B * C * D * S1 * Y)	0.00161	0.00189	0.00285
	(A * !B * C * D * S1 * Y)	0.00002	0.00004	0.00005
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00005	-0.00004
	(A * !B * C * D * S1 * Y)	0.00046	0.00073	0.00172
	(A * !B * !C * !D * S1 * !Y)	0.00171	0.00198	0.00294
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00005	0.00008
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00005	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00056	0.00084	0.00182
	(!A * B * C * D * S1 * Y)	0.00191	0.00242	0.00414
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00008	0.00043	0.00215
	(!A * B * !C * !D * S1 * !Y)	0.00176	0.00225	0.00397
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00005
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00023	0.00028	0.00200
	(!A * !B * C * !D * !S1 * !Y)	0.00194	0.00221	0.00316
	(!A * !B * C * !D * !S1 * !Y)	0.00004	0.00005	0.00008
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00091	0.00118	0.00214
	(!A * !B * !C * D * !S1 * !Y)	0.00193	0.00240	0.00404
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00004
	(!A * !B * !C * D * !S1 * !Y)	0.00007	0.00007	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00015	0.00032	0.00196

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00108
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00001	-0.00001	0.00000
	(B * D * S0 * Y)	0.00091	0.00118	0.00210
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00108
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y)	0.00092	0.00119	0.00210
	(!B * !D * S0 * !Y)	-0.00001	0.00027	0.00119
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00100	0.00128	0.00221
	(!A * !C * !S0 * !Y)	-0.00001	0.00027	0.00119
	(!A * !C * !S0 * !Y)	0.00000	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00101	0.00128	0.00221

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7L	(B * D * S0 * Y)	0.00088	0.00119	0.00220
	(B * D * S0 * Y)	-0.00001	-0.00001	0.00000
	(B * D * S0 * Y)	0.00001	0.00002	0.00005
	(B * D * S0 * Y)	-0.00013	0.00017	0.00118
	(A * C * !S0 * Y)	0.00088	0.00119	0.00220
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00013	0.00017	0.00118
	(!B * !D * S0 * !Y)	0.00078	0.00109	0.00209
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00023	0.00007	0.00108
	(!A * !C * !S0 * !Y)	0.00079	0.00109	0.00210
	(!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !S0 * !Y)	-0.00023	0.00007	0.00108

MUX4X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1P4H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1P4H7L	0.00068	0.00064	0.00060	0.00069	0.00270	0.00163	0.06998

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1P4H7L	0.00000	4.31303	7.04714

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7L	A->Y (RR)	0.06230	0.20206	0.53860
	B->Y (RR)	0.06062	0.20099	0.53822
	C->Y (RR)	0.06818	0.21185	0.55578
	D->Y (RR)	0.06786	0.21171	0.55590
	S0->Y (-R)	0.09338	0.25196	0.63165
	S1->Y (-R)	0.05302	0.20437	0.57008

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7L	A->Y (FF)	0.07913	0.20620	0.50250
	B->Y (FF)	0.07858	0.20586	0.50188
	C->Y (FF)	0.08909	0.22068	0.52433
	D->Y (FF)	0.09119	0.22222	0.52513
	S0->Y (-F)	0.08550	0.21870	0.52872
	S1->Y (-F)	0.04241	0.16362	0.45245

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	A	0.00092	0.00106	0.00168
	A	0.00008	0.00009	0.00009
	A	-0.00009	-0.00009	-0.00005
	A	0.00197	0.00211	0.00273
	B	0.00074	0.00088	0.00150
	B	0.00008	0.00009	0.00009
	B	-0.00009	-0.00009	-0.00008
	B	0.00178	0.00192	0.00255
	C	0.00070	0.00083	0.00144
	C	0.00008	0.00009	0.00009
	C	-0.00009	-0.00009	-0.00005
	C	0.00178	0.00194	0.00255
	D	0.00048	0.00061	0.00122
	D	0.00008	0.00009	0.00009
	D	-0.00009	-0.00009	-0.00008
	D	0.00164	0.00177	0.00238
	S0	0.00333	0.00382	0.00548
	S0	0.00011	0.00015	0.00023
	S0	-0.00011	-0.00008	0.00014
	S0	0.00350	0.00414	0.00657
	S1	0.00172	0.00218	0.00368
	S1	0.00002	0.00002	0.00003
	S1	0.00000	0.00001	0.00006
	S1	0.00164	0.00212	0.00388

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	A	0.00180	0.00197	0.00276
	A	-0.00009	-0.00008	-0.00007
	A	0.00009	0.00009	0.00009
	A	0.00074	0.00091	0.00170
	B	0.00197	0.00214	0.00293
	B	-0.00009	-0.00009	-0.00007
	B	0.00008	0.00009	0.00009
	B	0.00093	0.00109	0.00189
	C	0.00239	0.00257	0.00336
	C	-0.00009	-0.00008	-0.00007
	C	0.00009	0.00009	0.00009
	C	0.00129	0.00146	0.00226
	D	0.00263	0.00280	0.00359
	D	-0.00009	-0.00008	-0.00006
	D	0.00009	0.00009	0.00009
	D	0.00146	0.00163	0.00243
	S0	0.00380	0.00454	0.00736
	S0	-0.00001	0.00002	0.00006
	S0	0.00017	0.00019	0.00022
	S0	0.00366	0.00412	0.00579
	S1	0.00176	0.00227	0.00424
	S1	-0.00000	0.00000	0.00001
	S1	0.00002	0.00003	0.00004
	S1	0.00207	0.00251	0.00392

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00025	0.00075
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00097	0.00111	0.00160
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00091	0.00106	0.00161
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00007	-0.00007	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00021	0.00076
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	0.00007	0.00058
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00008	-0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00078	0.00092	0.00142
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00011
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00108	0.00123	0.00178
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00008	0.00008	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00024	0.00039	0.00094
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00019	0.00020	0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00031	0.00043	0.00089
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00007	0.00007	0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00121	0.00133	0.00178

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00019	-0.00019	-0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00115	0.00129	0.00179
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00025	0.00039	0.00089

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00021	0.00066
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00105	0.00117	0.00162
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00139	0.00152	0.00201
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00043	0.00056	0.00105
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00008	0.00014	0.00096
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00001	-0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00150	0.00173	0.00255
	(A * B * C * !D * !S1 * Y)	0.00116	0.00139	0.00223
	(A * B * C * !D * !S1 * Y)	-0.00004	-0.00003	-0.00002
	(A * B * C * !D * !S1 * Y)	0.00001	0.00004	0.00005
	(A * B * C * !D * !S1 * Y)	0.00222	0.00245	0.00327
	(A * B * !C * D * !S1 * Y)	0.00001	0.00042	0.00193
	(A * B * !C * D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00209	0.00251	0.00402
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00006	0.00017	0.00100
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00150	0.00174	0.00257
	(A * !B * C * D * S1 * Y)	0.00087	0.00110	0.00196
	(A * !B * C * D * S1 * Y)	-0.00004	-0.00004	-0.00002
	(A * !B * C * D * S1 * Y)	0.00001	0.00004	0.00006
	(A * !B * C * D * S1 * Y)	0.00202	0.00226	0.00310
	(A * !B * !C * !D * S1 * !Y)	0.00078	0.00102	0.00188
	(A * !B * !C * !D * S1 * !Y)	-0.00004	-0.00004	-0.00001
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00005	0.00005
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00216	0.00301
	(!A * B * C * D * S1 * Y)	-0.00015	0.00030	0.00188
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(!A * B * C * D * S1 * Y)	0.00183	0.00228	0.00386
	(!A * B * !C * !D * S1 * !Y)	-0.00001	0.00044	0.00202
	(!A * B * !C * !D * S1 * !Y)	0.00005	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00195	0.00241	0.00400
	(!A * !B * C * !D * !S1 * !Y)	0.00104	0.00127	0.00211
	(!A * !B * C * !D * !S1 * !Y)	-0.00004	-0.00003	-0.00001
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00005	0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00207	0.00230	0.00314
	(!A * !B * !C * D * !S1 * !Y)	0.00018	0.00060	0.00210
	(!A * !B * !C * D * !S1 * !Y)	0.00004	0.00007	0.00007
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00225	0.00267	0.00418

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00134	0.00160	0.00252
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00001	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00024	0.00003	0.00094
	(A * B * C * !D * !S1 * Y)	0.00182	0.00209	0.00303
	(A * B * C * !D * !S1 * Y)	0.00003	0.00004	0.00004
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00001
	(A * B * C * !D * !S1 * Y)	0.00075	0.00103	0.00200
	(A * B * !C * D * !S1 * Y)	0.00213	0.00260	0.00424
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00006	0.00007	0.00009
	(A * B * !C * D * !S1 * Y)	0.00004	0.00051	0.00215
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00131	0.00157	0.00248
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00026	0.00001	0.00091
	(A * !B * C * D * S1 * Y)	0.00161	0.00188	0.00285
	(A * !B * C * D * S1 * Y)	0.00002	0.00004	0.00005
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00004	-0.00001
	(A * !B * C * D * S1 * Y)	0.00046	0.00073	0.00172
	(A * !B * !C * !D * S1 * !Y)	0.00170	0.00197	0.00292
	(A * !B * !C * !D * S1 * !Y)	0.00001	0.00004	0.00006
	(A * !B * !C * !D * S1 * !Y)	-0.00005	-0.00005	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00055	0.00082	0.00181
	(!A * B * C * D * S1 * Y)	0.00190	0.00240	0.00412
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * D * S1 * Y)	0.00007	0.00008	0.00010
	(!A * B * C * D * S1 * Y)	-0.00009	0.00042	0.00214
	(!A * B * !C * !D * S1 * !Y)	0.00173	0.00225	0.00397
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00005
	(!A * B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00021	0.00029	0.00200
	(!A * !B * C * !D * !S1 * !Y)	0.00195	0.00221	0.00315
	(!A * !B * C * !D * !S1 * !Y)	0.00001	0.00003	0.00004
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00090	0.00117	0.00214
	(!A * !B * !C * D * !S1 * !Y)	0.00196	0.00243	0.00407
	(!A * !B * !C * D * !S1 * !Y)	-0.00007	-0.00006	-0.00004
	(!A * !B * !C * D * !S1 * !Y)	0.00007	0.00007	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	0.00035	0.00199

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00108
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00091	0.00118	0.00210
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00108
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y)	0.00091	0.00118	0.00210
	(!B * !D * S0 * !Y)	0.00000	0.00028	0.00120
	(!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00100	0.00129	0.00221
	(!A * !C * !S0 * !Y)	0.00000	0.00028	0.00120
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00101	0.00128	0.00221

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7L	(B * D * S0 * Y)	0.00088	0.00119	0.00220
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y)	0.00000	0.00001	0.00002
	(B * D * S0 * Y)	-0.00013	0.00018	0.00118
	(A * C * !S0 * Y)	0.00088	0.00119	0.00220
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00013	0.00018	0.00119
	(!B * !D * S0 * !Y)	0.00078	0.00108	0.00209
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00024	0.00007	0.00108
	(!A * !C * !S0 * !Y)	0.00078	0.00108	0.00208
	(!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00023	0.00007	0.00108

MUX4X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X2H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X2H7L	0.00068	0.00065	0.00060	0.00069	0.00269	0.00162	0.09101

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X2H7L	0.00000	4.77846	7.81146

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7L	A->Y (RR)	0.06849	0.21212	0.55529
	B->Y (RR)	0.06680	0.21101	0.55457
	C->Y (RR)	0.07373	0.22062	0.56986
	D->Y (RR)	0.07337	0.22053	0.57029
	S0->Y (-R)	0.09856	0.25943	0.64202
	S1->Y (-R)	0.05798	0.21240	0.58206

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7L	A->Y (FF)	0.08759	0.21988	0.52454
	B->Y (FF)	0.08705	0.21953	0.52421
	C->Y (FF)	0.09690	0.23296	0.54416
	D->Y (FF)	0.09899	0.23446	0.54503
	S0->Y (-F)	0.09388	0.23189	0.55004
	S1->Y (-F)	0.04978	0.17752	0.47659

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7L	A	0.00117	0.00133	0.00209
	A	0.00008	0.00008	0.00008
	A	-0.00009	-0.00009	-0.00005
	A	0.00220	0.00237	0.00314
	B	0.00099	0.00115	0.00192
	B	0.00008	0.00008	0.00008
	B	-0.00009	-0.00009	-0.00008
	B	0.00203	0.00219	0.00296
	C	0.00095	0.00109	0.00186
	C	0.00008	0.00008	0.00008
	C	-0.00009	-0.00009	-0.00006
	C	0.00203	0.00219	0.00296
	D	0.00073	0.00087	0.00164
	D	0.00008	0.00008	0.00008
	D	-0.00009	-0.00008	-0.00005
	D	0.00186	0.00202	0.00279
	S0	0.00356	0.00406	0.00577
	S0	0.00017	0.00017	0.00017
	S0	-0.00004	0.00000	0.00009
	S0	0.00374	0.00440	0.00706
	S1	0.00195	0.00242	0.00395
	S1	0.00001	0.00002	0.00003
	S1	-0.00002	-0.00002	0.00002
	S1	0.00188	0.00237	0.00436

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7L	A	0.00213	0.00235	0.00338
	A	-0.00008	-0.00008	-0.00007
	A	0.00008	0.00009	0.00009
	A	0.00108	0.00129	0.00233
	B	0.00230	0.00252	0.00355
	B	-0.00008	-0.00008	-0.00008
	B	0.00008	0.00009	0.00009
	B	0.00126	0.00147	0.00252
	C	0.00270	0.00293	0.00399
	C	-0.00008	-0.00008	-0.00008
	C	0.00008	0.00009	0.00009
	C	0.00160	0.00183	0.00289
	D	0.00293	0.00316	0.00421
	D	-0.00008	-0.00008	-0.00006
	D	0.00008	0.00009	0.00012
	D	0.00178	0.00201	0.00306
	S0	0.00409	0.00489	0.00803
	S0	0.00003	0.00003	0.00005
	S0	0.00018	0.00018	0.00021
	S0	0.00398	0.00449	0.00628
	S1	0.00208	0.00262	0.00485
	S1	0.00000	0.00001	0.00001
	S1	0.00000	0.00002	0.00004
	S1	0.00241	0.00285	0.00436

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00025	0.00075
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00007	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00097	0.00111	0.00160
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00093	0.00107	0.00162
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00008	0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00007	0.00022	0.00077
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	0.00007	0.00058
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00007	0.00007	0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00008	-0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00078	0.00092	0.00142
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00124	0.00179
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00007	-0.00007	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00008	0.00008	0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00025	0.00040	0.00095
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00020	0.00020	0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00031	0.00043	0.00089
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00121	0.00133	0.00179

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00019	-0.00019	-0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00113	0.00127	0.00177
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00008	-0.00007	-0.00007
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00036	0.00087

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00021	0.00066
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00105	0.00117	0.00162
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00136	0.00149	0.00199
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00008	0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00041	0.00054	0.00103
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00000	0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00000	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7L	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00008	0.00014	0.00096
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00001	-0.00001	0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00149	0.00172	0.00255
	(A * B * C * !D * !S1 * Y)	0.00114	0.00137	0.00221
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00004
	(A * B * C * !D * !S1 * Y)	0.00003	0.00004	0.00005
	(A * B * C * !D * !S1 * Y)	0.00219	0.00242	0.00325
	(A * B * !C * D * !S1 * Y)	0.00001	0.00043	0.00194
	(A * B * !C * D * !S1 * Y)	0.00007	0.00008	0.00009
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00209	0.00252	0.00403
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	0.00018	0.00100
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00150	0.00174	0.00257
	(A * !B * C * D * S1 * Y)	0.00088	0.00112	0.00197
	(A * !B * C * D * S1 * Y)	-0.00004	-0.00004	-0.00003
	(A * !B * C * D * S1 * Y)	0.00002	0.00004	0.00006
	(A * !B * C * D * S1 * Y)	0.00205	0.00228	0.00311
	(A * !B * !C * !D * S1 * !Y)	0.00077	0.00102	0.00188
	(A * !B * !C * !D * S1 * !Y)	-0.00005	-0.00004	-0.00002
	(A * !B * !C * !D * S1 * !Y)	0.00004	0.00005	0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00193	0.00216	0.00301
	(!A * B * C * D * S1 * Y)	-0.00015	0.00030	0.00187
	(!A * B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00005
	(!A * B * C * D * S1 * Y)	0.00183	0.00228	0.00386
	(!A * B * !C * !D * S1 * !Y)	0.00001	0.00046	0.00204
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00009
	(!A * B * !C * !D * S1 * !Y)	-0.00007	-0.00007	-0.00005
	(!A * B * !C * !D * S1 * !Y)	0.00198	0.00243	0.00401
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00123	0.00207
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00004	-0.00003
	(!A * !B * C * !D * !S1 * !Y)	0.00002	0.00004	0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00205	0.00227	0.00310
	(!A * !B * !C * D * !S1 * !Y)	0.00019	0.00061	0.00213
	(!A * !B * !C * D * !S1 * !Y)	0.00007	0.00007	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00007	-0.00006	-0.00005
	(!A * !B * !C * D * !S1 * !Y)	0.00225	0.00268	0.00420

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00135	0.00161	0.00252
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00024	0.00002	0.00093
	(A * B * C * !D * !S1 * Y)	0.00181	0.00209	0.00303
	(A * B * C * !D * !S1 * Y)	0.00004	0.00004	0.00006
	(A * B * C * !D * !S1 * Y)	-0.00005	-0.00004	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00075	0.00103	0.00200
	(A * B * !C * D * !S1 * Y)	0.00210	0.00257	0.00422
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00007	-0.00005
	(A * B * !C * D * !S1 * Y)	0.00006	0.00007	0.00009
	(A * B * !C * D * !S1 * Y)	0.00002	0.00049	0.00213
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00131	0.00157	0.00248
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00027	0.00001	0.00091
	(A * !B * C * D * S1 * Y)	0.00161	0.00188	0.00285
	(A * !B * C * D * S1 * Y)	0.00003	0.00004	0.00005
	(A * !B * C * D * S1 * Y)	-0.00005	-0.00004	-0.00002
	(A * !B * C * D * S1 * Y)	0.00045	0.00073	0.00172
	(A * !B * !C * !D * S1 * !Y)	0.00171	0.00198	0.00293
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00004	0.00006
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00005	-0.00004
	(A * !B * !C * !D * S1 * !Y)	0.00056	0.00084	0.00182
	(!A * B * C * D * S1 * Y)	0.00191	0.00241	0.00414
	(!A * B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00005
	(!A * B * C * D * S1 * Y)	0.00006	0.00008	0.00009
	(!A * B * C * D * S1 * Y)	-0.00008	0.00043	0.00215
	(!A * B * !C * !D * S1 * !Y)	0.00175	0.00225	0.00397
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00007	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00023	0.00028	0.00200
	(!A * !B * C * !D * !S1 * !Y)	0.00195	0.00222	0.00316
	(!A * !B * C * !D * !S1 * !Y)	0.00004	0.00005	0.00006
	(!A * !B * C * !D * !S1 * !Y)	-0.00005	-0.00004	-0.00002
	(!A * !B * C * !D * !S1 * !Y)	0.00091	0.00119	0.00215
	(!A * !B * !C * D * !S1 * !Y)	0.00192	0.00239	0.00403
	(!A * !B * !C * D * !S1 * !Y)	-0.00007	-0.00007	-0.00005
	(!A * !B * !C * D * !S1 * !Y)	0.00006	0.00007	0.00007
	(!A * !B * !C * D * !S1 * !Y)	-0.00015	0.00032	0.00196

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00109
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	0.00000
	(B * D * S0 * Y)	0.00090	0.00117	0.00209
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00109
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00001	-0.00001	0.00000
	(A * C * !S0 * Y)	0.00089	0.00117	0.00209
	(!B * !D * S0 * !Y)	0.00001	0.00029	0.00121
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00100	0.00128	0.00221
	(!A * !C * !S0 * !Y)	0.00001	0.00029	0.00121
	(!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00100	0.00128	0.00221

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7L	(B * D * S0 * Y)	0.00088	0.00119	0.00220
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y)	0.00000	0.00001	0.00002
	(B * D * S0 * Y)	-0.00012	0.00019	0.00120
	(A * C * !S0 * Y)	0.00089	0.00119	0.00220
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00012	0.00019	0.00120
	(!B * !D * S0 * !Y)	0.00077	0.00107	0.00208
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	0.00000
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00022	0.00008	0.00108
	(!A * !C * !S0 * !Y)	0.00077	0.00107	0.00208
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00022	0.00007	0.00108

MUX4X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X3H7L	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X3H7L	0.00078	0.00073	0.00069	0.00074	0.00304	0.00173	0.12793

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X3H7L	0.00000	5.48155	8.97794

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7L	A->Y (RR)	0.06174	0.20404	0.54294
	B->Y (RR)	0.06004	0.20294	0.54280
	C->Y (RR)	0.06460	0.20952	0.55406
	D->Y (RR)	0.06444	0.20988	0.55500
	S0->Y (-R)	0.08659	0.24617	0.62637
	S1->Y (-R)	0.05333	0.20773	0.57668

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7L	A->Y (FF)	0.08068	0.21139	0.51122
	B->Y (FF)	0.08028	0.21123	0.51114
	C->Y (FF)	0.08722	0.22089	0.52559
	D->Y (FF)	0.08942	0.22268	0.52703
	S0->Y (-F)	0.08457	0.22002	0.53117
	S1->Y (-F)	0.04554	0.17181	0.46612

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7L	A	0.00142	0.00161	0.00259
	A	0.00010	0.00010	0.00010
	A	-0.00011	-0.00010	-0.00004
	A	0.00262	0.00284	0.00381
	B	0.00117	0.00136	0.00235
	B	0.00010	0.00010	0.00010
	B	-0.00011	-0.00010	-0.00004
	B	0.00236	0.00258	0.00356
	C	0.00112	0.00130	0.00228
	C	0.00010	0.00010	0.00010
	C	-0.00011	-0.00011	-0.00011
	C	0.00238	0.00257	0.00354
	D	0.00088	0.00106	0.00203
	D	0.00010	0.00010	0.00010
	D	-0.00011	-0.00011	-0.00008
	D	0.00218	0.00237	0.00334
	S0	0.00407	0.00470	0.00683
	S0	0.00021	0.00022	0.00022
	S0	-0.00005	0.00001	0.00011
	S0	0.00426	0.00509	0.00841
	S1	0.00223	0.00274	0.00444
	S1	0.00001	0.00002	0.00004
	S1	0.00000	0.00001	0.00001
	S1	0.00212	0.00267	0.00498

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7L	A	0.00246	0.00273	0.00406
	A	-0.00010	-0.00010	-0.00006
	A	0.00004	0.00011	0.00013
	A	0.00121	0.00150	0.00284
	B	0.00271	0.00297	0.00430
	B	-0.00010	-0.00010	-0.00008
	B	0.00010	0.00011	0.00011
	B	0.00147	0.00175	0.00309
	C	0.00307	0.00335	0.00471
	C	-0.00010	-0.00010	-0.00007
	C	0.00011	0.00011	0.00011
	C	0.00179	0.00208	0.00344
	D	0.00335	0.00363	0.00497
	D	-0.00010	-0.00010	-0.00007
	D	0.00010	0.00011	0.00012
	D	0.00204	0.00232	0.00367
	S0	0.00462	0.00561	0.00956
	S0	0.00000	0.00004	0.00010
	S0	0.00022	0.00023	0.00027
	S0	0.00448	0.00510	0.00731
	S1	0.00230	0.00292	0.00553
	S1	0.00000	0.00001	0.00004
	S1	0.00001	0.00002	0.00003
	S1	0.00266	0.00318	0.00488

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00017	0.00033	0.00092
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00010	0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00010	-0.00010	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00118	0.00133	0.00192
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00010	-0.00010	-0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00000	-0.00000	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00108	0.00126	0.00191
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00010	-0.00010	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00010	0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00006	0.00025	0.00090
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00012	0.00012	0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00000	0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	0.00008	0.00068
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00010	0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00010	-0.00010	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00092	0.00108	0.00168
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00016	-0.00015	-0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00132	0.00150	0.00215
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00010	-0.00010	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00010	0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00031	0.00049	0.00115
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00017	0.00017	0.00017
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00011	-0.00010	-0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00023
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00032	0.00048	0.00103
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00010	0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00010	-0.00010	-0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00137	0.00152	0.00207

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00012	0.00012	0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00021	-0.00021	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00127	0.00143	0.00205
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00010	-0.00009	-0.00008
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00010	0.00010	0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00022	0.00039	0.00101

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00023	0.00078
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00010	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00010	-0.00010	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00118	0.00132	0.00187
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00015	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00023	0.00024

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00155	0.00171	0.00231
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00010	-0.00010	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00010	0.00010	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00046	0.00062	0.00122
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00016	0.00016	0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00010	0.00018	0.00119
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00002	-0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00166	0.00194	0.00295
	(A * B * C * !D * !S1 * Y)	0.00126	0.00154	0.00257
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00005	-0.00002
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00006
	(A * B * C * !D * !S1 * Y)	0.00241	0.00269	0.00370
	(A * B * !C * D * !S1 * Y)	-0.00002	0.00050	0.00235
	(A * B * !C * D * !S1 * Y)	0.00009	0.00010	0.00011
	(A * B * !C * D * !S1 * Y)	-0.00010	-0.00009	-0.00009
	(A * B * !C * D * !S1 * Y)	0.00232	0.00284	0.00469
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00006	0.00022	0.00122
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00166	0.00195	0.00296
	(A * !B * C * D * S1 * Y)	0.00104	0.00133	0.00238
	(A * !B * C * D * S1 * Y)	-0.00005	-0.00005	-0.00003
	(A * !B * C * D * S1 * Y)	0.00006	0.00006	0.00008
	(A * !B * C * D * S1 * Y)	0.00230	0.00259	0.00361
	(A * !B * !C * !D * S1 * !Y)	0.00095	0.00123	0.00228
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00005	-0.00004
	(A * !B * !C * !D * S1 * !Y)	0.00004	0.00007	0.00008
	(A * !B * !C * !D * S1 * !Y)	0.00216	0.00246	0.00348
	(!A * B * C * D * S1 * Y)	-0.00018	0.00038	0.00230
	(!A * B * C * D * S1 * Y)	0.00009	0.00010	0.00010
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00007
	(!A * B * C * D * S1 * Y)	0.00205	0.00261	0.00454
	(!A * B * !C * !D * S1 * !Y)	-0.00000	0.00055	0.00248
	(!A * B * !C * !D * S1 * !Y)	0.00006	0.00009	0.00010
	(!A * B * !C * !D * S1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00220	0.00276	0.00470
	(!A * !B * C * !D * !S1 * !Y)	0.00112	0.00141	0.00245
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00007	0.00011
	(!A * !B * C * !D * !S1 * !Y)	0.00227	0.00254	0.00357
	(!A * !B * !C * D * !S1 * !Y)	0.00019	0.00071	0.00257
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00010	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A * !B * !C * D * !S1 * !Y)	0.00250	0.00303	0.00489

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7L	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00150	0.00183	0.00295
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00002	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00025	0.00007	0.00118
	(A * B * C * !D * !S1 * Y)	0.00200	0.00235	0.00352
	(A * B * C * !D * !S1 * Y)	0.00002	0.00005	0.00008
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00086	0.00120	0.00240
	(A * B * !C * D * !S1 * Y)	0.00234	0.00294	0.00497
	(A * B * !C * D * !S1 * Y)	-0.00010	-0.00010	-0.00009
	(A * B * !C * D * !S1 * Y)	0.00009	0.00009	0.00010
	(A * B * !C * D * !S1 * Y)	0.00001	0.00060	0.00263
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00149	0.00181	0.00292
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00025	0.00007	0.00118
	(A * !B * C * D * S1 * Y)	0.00183	0.00217	0.00335
	(A * !B * C * D * S1 * Y)	0.00003	0.00005	0.00006
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00006	-0.00003
	(A * !B * C * D * S1 * Y)	0.00057	0.00092	0.00214
	(A * !B * !C * !D * S1 * !Y)	0.00195	0.00229	0.00346
	(A * !B * !C * !D * S1 * !Y)	0.00004	0.00006	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00004
	(A * !B * !C * !D * S1 * !Y)	0.00073	0.00107	0.00228
	(!A * B * C * D * S1 * Y)	0.00212	0.00275	0.00486
	(!A * B * C * D * S1 * Y)	-0.00010	-0.00010	-0.00009
	(!A * B * C * D * S1 * Y)	0.00007	0.00009	0.00011
	(!A * B * C * D * S1 * Y)	-0.00013	0.00050	0.00262
	(!A * B * !C * !D * S1 * !Y)	0.00196	0.00258	0.00469
	(!A * B * !C * !D * S1 * !Y)	-0.00009	-0.00009	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00008	0.00009	0.00009
	(!A * B * !C * !D * S1 * !Y)	-0.00025	0.00037	0.00247
	(!A * !B * C * !D * !S1 * !Y)	0.00212	0.00247	0.00363
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00134	0.00253
	(!A * !B * !C * D * !S1 * !Y)	0.00213	0.00272	0.00475
	(!A * !B * !C * D * !S1 * !Y)	-0.00010	-0.00010	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00009	0.00009
	(!A * !B * !C * D * !S1 * !Y)	-0.00019	0.00040	0.00242

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * D * S0 * Y)	-0.00010	0.00017	0.00111
	(B * D * S0 * Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00096	0.00123	0.00216
	(A * C * !S0 * Y)	-0.00010	0.00017	0.00111
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y)	0.00096	0.00123	0.00216
	(!B * !D * S0 * !Y)	0.00002	0.00030	0.00123
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00107	0.00135	0.00229
	(!A * !C * !S0 * !Y)	0.00002	0.00030	0.00124
	(!A * !C * !S0 * !Y)	0.00000	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00107	0.00135	0.00229

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7L	(B * D * S0 * Y)	0.00094	0.00125	0.00228
	(B * D * S0 * Y)	-0.00001	-0.00001	0.00000
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00011	0.00020	0.00122
	(A * C * !S0 * Y)	0.00094	0.00126	0.00228
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00011	0.00020	0.00123
	(!B * !D * S0 * !Y)	0.00081	0.00113	0.00215
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00024	0.00007	0.00110
	(!A * !C * !S0 * !Y)	0.00081	0.00113	0.00216
	(!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00024	0.00007	0.00110

MUX4X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X4H7L	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X4H7L	0.00088	0.00081	0.00084	0.00083	0.00414	0.00192	0.17283

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X4H7L	0.00000	6.65555	10.99330

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7L	A->Y (RR)	0.06268	0.20652	0.54775
	B->Y (RR)	0.06115	0.20581	0.54858
	C->Y (RR)	0.06882	0.21665	0.56740
	D->Y (RR)	0.06732	0.21564	0.56648
	S0->Y (-R)	0.09164	0.25278	0.63490
	S1->Y (-R)	0.05724	0.21480	0.58984

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7L	A->Y (FF)	0.08338	0.21680	0.52083
	B->Y (FF)	0.08301	0.21675	0.52106
	C->Y (FF)	0.09449	0.23206	0.54395
	D->Y (FF)	0.09530	0.23260	0.54413
	S0->Y (-F)	0.08926	0.22798	0.54558
	S1->Y (-F)	0.04875	0.17835	0.47764

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7L	A	0.00185	0.00209	0.00337
	A	0.00012	0.00012	0.00012
	A	-0.00013	-0.00013	-0.00012
	A	0.00335	0.00359	0.00487
	B	0.00163	0.00187	0.00316
	B	0.00012	0.00012	0.00012
	B	-0.00013	-0.00012	-0.00007
	B	0.00307	0.00335	0.00464
	C	0.00165	0.00188	0.00317
	C	0.00012	0.00012	0.00012
	C	-0.00013	-0.00013	-0.00012
	C	0.00316	0.00340	0.00469
	D	0.00125	0.00149	0.00279
	D	0.00012	0.00012	0.00012
	D	-0.00013	-0.00013	-0.00012
	D	0.00279	0.00303	0.00433
	S0	0.00519	0.00593	0.00845
	S0	0.00026	0.00026	0.00027
	S0	0.00000	0.00001	0.00012
	S0	0.00546	0.00643	0.01046
	S1	0.00287	0.00342	0.00533
	S1	0.00001	0.00001	0.00002
	S1	0.00000	0.00002	0.00004
	S1	0.00266	0.00329	0.00608

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7L	A	0.00319	0.00355	0.00535
	A	-0.00012	-0.00012	-0.00012
	A	0.00012	0.00013	0.00013
	A	0.00167	0.00204	0.00385
	B	0.00341	0.00377	0.00558
	B	-0.00012	-0.00012	-0.00009
	B	0.00009	0.00013	0.00014
	B	0.00193	0.00229	0.00411
	C	0.00403	0.00442	0.00626
	C	-0.00012	-0.00012	-0.00009
	C	0.00012	0.00013	0.00013
	C	0.00250	0.00289	0.00474
	D	0.00441	0.00480	0.00664
	D	-0.00012	-0.00012	-0.00009
	D	0.00012	0.00013	0.00013
	D	0.00287	0.00326	0.00510
	S0	0.00600	0.00723	0.01215
	S0	0.00002	0.00005	0.00010
	S0	0.00028	0.00028	0.00032
	S0	0.00599	0.00675	0.00942
	S1	0.00282	0.00353	0.00670
	S1	0.00000	0.00002	0.00005
	S1	0.00000	0.00002	0.00005
	S1	0.00336	0.00393	0.00589

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00031	0.00100
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00136	0.00154	0.00223
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00013	-0.00012	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00132	0.00154	0.00230
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00012	-0.00012	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00030	0.00107
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00014	0.00014	0.00014
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00031	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00009	0.00009	0.00078
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00012	0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00012	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00112	0.00131	0.00200
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00015	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00156	0.00177	0.00252
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00012	-0.00012	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00012	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00034	0.00055	0.00131
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00016	0.00016	0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00013	-0.00012	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00028	0.00028	0.00029
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00044	0.00060	0.00122
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00169	0.00186	0.00247

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00014	0.00014	0.00014
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00026	-0.00026
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00170	0.00188	0.00257
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00044	0.00062	0.00132

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00005	0.00022	0.00084
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00010	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00132	0.00149	0.00211
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00018	-0.00017	-0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00023	0.00024	0.00025

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00208	0.00226	0.00295
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00081	0.00099	0.00168
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00020	0.00020
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00017	0.00015	0.00131
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00003	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00211	0.00244	0.00359
	(A * B * C * !D * !S1 * Y)	0.00173	0.00205	0.00320
	(A * B * C * !D * !S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00007	0.00008	0.00012
	(A * B * C * !D * !S1 * Y)	0.00331	0.00361	0.00475
	(A * B * !C * D * !S1 * Y)	-0.00014	0.00045	0.00259
	(A * B * !C * D * !S1 * Y)	0.00012	0.00012	0.00013
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00009
	(A * B * !C * D * !S1 * Y)	0.00284	0.00343	0.00558
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00014	0.00019	0.00136
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00213	0.00246	0.00364
	(A * !B * C * D * S1 * Y)	0.00112	0.00146	0.00266
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00007	0.00007	0.00008
	(A * !B * C * D * S1 * Y)	0.00273	0.00305	0.00422
	(A * !B * !C * !D * S1 * !Y)	0.00099	0.00133	0.00254
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(A * !B * !C * !D * S1 * !Y)	0.00259	0.00293	0.00410
	(!A * B * C * D * S1 * Y)	-0.00028	0.00035	0.00255
	(!A * B * C * D * S1 * Y)	0.00011	0.00012	0.00012
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00012	-0.00010
	(!A * B * C * D * S1 * Y)	0.00263	0.00327	0.00548
	(!A * B * !C * !D * S1 * !Y)	-0.00009	0.00054	0.00276
	(!A * B * !C * !D * S1 * !Y)	0.00012	0.00012	0.00013
	(!A * B * !C * !D * S1 * !Y)	-0.00012	-0.00012	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00282	0.00347	0.00570
	(!A * !B * C * !D * !S1 * !Y)	0.00149	0.00181	0.00296
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00007	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00009	0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00302	0.00333	0.00448
	(!A * !B * !C * D * !S1 * !Y)	-0.00001	0.00060	0.00273
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A * !B * !C * D * !S1 * !Y)	0.00293	0.00355	0.00569

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00183	0.00221	0.00352
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00044	-0.00006	0.00124
	(A * B * C * !D * !S1 * Y)	0.00252	0.00290	0.00423
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00007
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00007	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00093	0.00133	0.00270
	(A * B * !C * D * !S1 * Y)	0.00296	0.00365	0.00601
	(A * B * !C * D * !S1 * Y)	-0.00013	-0.00012	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00012	0.00013	0.00014
	(A * B * !C * D * !S1 * Y)	-0.00002	0.00066	0.00303
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00179	0.00218	0.00347
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00048	-0.00011	0.00119
	(A * !B * C * D * S1 * Y)	0.00220	0.00260	0.00396
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00008
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00060	0.00101	0.00242
	(A * !B * !C * !D * S1 * !Y)	0.00233	0.00272	0.00407
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00006	0.00007
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00071	0.00111	0.00253
	(!A * B * C * D * S1 * Y)	0.00273	0.00345	0.00589
	(!A * B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00009
	(!A * B * C * D * S1 * Y)	0.00011	0.00013	0.00015
	(!A * B * C * D * S1 * Y)	-0.00019	0.00052	0.00296
	(!A * B * !C * !D * S1 * !Y)	0.00252	0.00324	0.00567
	(!A * B * !C * !D * S1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00011	0.00012	0.00012
	(!A * B * !C * !D * S1 * !Y)	-0.00039	0.00032	0.00274
	(!A * !B * C * !D * !S1 * !Y)	0.00277	0.00316	0.00448
	(!A * !B * C * !D * !S1 * !Y)	0.00004	0.00007	0.00009
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00008	-0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00124	0.00162	0.00298
	(!A * !B * !C * D * !S1 * !Y)	0.00284	0.00352	0.00587
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	-0.00011	-0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00012	0.00012	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	0.00056	0.00291

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * D * S0 * Y)	-0.00009	0.00019	0.00114
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00107	0.00134	0.00229
	(A * C * !S0 * Y)	-0.00009	0.00019	0.00114
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00001	0.00001
	(A * C * !S0 * Y)	0.00106	0.00134	0.00229
	(!B * !D * S0 * !Y)	0.00003	0.00031	0.00127
	(!B * !D * S0 * !Y)	0.00000	0.00002	0.00004
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00117	0.00146	0.00242
	(!A * !C * !S0 * !Y)	0.00003	0.00031	0.00127
	(!A * !C * !S0 * !Y)	0.00000	0.00001	0.00002
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00117	0.00146	0.00242

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7L	(B * D * S0 * Y)	0.00101	0.00132	0.00237
	(B * D * S0 * Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y)	0.00000	0.00002	0.00003
	(B * D * S0 * Y)	-0.00016	0.00017	0.00121
	(A * C * !S0 * Y)	0.00100	0.00132	0.00237
	(A * C * !S0 * Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00015	0.00017	0.00121
	(!B * !D * S0 * !Y)	0.00089	0.00120	0.00224
	(!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00027	0.00005	0.00109
	(!A * !C * !S0 * !Y)	0.00088	0.00120	0.00224
	(!A * !C * !S0 * !Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00026	0.00005	0.00109

MUX4X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X6H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X6H7L	0.00100	0.00090	0.00090	0.00090	0.00466	0.00194	0.25574

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X6H7L	0.00000	8.10820	13.34530

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7L	A->Y (RR)	0.06488	0.20979	0.55157
	B->Y (RR)	0.06338	0.20901	0.55155
	C->Y (RR)	0.07126	0.21981	0.56984
	D->Y (RR)	0.06968	0.21881	0.56951
	S0->Y (-R)	0.09381	0.25538	0.63679
	S1->Y (-R)	0.05745	0.21435	0.58588

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7L	A->Y (FF)	0.08644	0.22198	0.52803
	B->Y (FF)	0.08614	0.22185	0.52786
	C->Y (FF)	0.09743	0.23651	0.54977
	D->Y (FF)	0.09853	0.23735	0.55024
	S0->Y (-F)	0.09116	0.23174	0.55078
	S1->Y (-F)	0.05435	0.18724	0.49259

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7L	A	0.00242	0.00275	0.00462
	A	0.00011	0.00011	0.00012
	A	-0.00012	-0.00012	-0.00005
	A	0.00399	0.00435	0.00622
	B	0.00216	0.00249	0.00438
	B	0.00011	0.00011	0.00011
	B	-0.00012	-0.00012	-0.00007
	B	0.00371	0.00405	0.00593
	C	0.00231	0.00263	0.00453
	C	0.00011	0.00011	0.00011
	C	-0.00012	-0.00012	-0.00012
	C	0.00388	0.00421	0.00611
	D	0.00181	0.00214	0.00404
	D	0.00011	0.00011	0.00011
	D	-0.00012	-0.00011	-0.00008
	D	0.00341	0.00373	0.00563
	S0	0.00616	0.00707	0.01022
	S0	0.00028	0.00028	0.00030
	S0	0.00007	0.00009	0.00009
	S0	0.00628	0.00751	0.01280
	S1	0.00182	0.00259	0.00641
	S1	-0.00001	-0.00001	0.00001
	S1	0.00000	0.00001	0.00006
	S1	0.00317	0.00397	0.00778

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7L	A	0.00402	0.00457	0.00725
	A	-0.00011	-0.00011	-0.00007
	A	0.00012	0.00012	0.00018
	A	0.00238	0.00295	0.00565
	B	0.00428	0.00483	0.00752
	B	-0.00011	-0.00011	-0.00007
	B	0.00010	0.00012	0.00014
	B	0.00269	0.00326	0.00596
	C	0.00487	0.00547	0.00820
	C	-0.00011	-0.00011	-0.00007
	C	0.00012	0.00012	0.00012
	C	0.00324	0.00387	0.00662
	D	0.00536	0.00596	0.00868
	D	-0.00011	-0.00011	-0.00006
	D	0.00008	0.00012	0.00012
	D	0.00374	0.00435	0.00709
	S0	0.00704	0.00865	0.01520
	S0	0.00002	0.00009	0.00016
	S0	0.00027	0.00029	0.00032
	S0	0.00725	0.00825	0.01171
	S1	0.00355	0.00445	0.00866
	S1	0.00004	0.00005	0.00009
	S1	-0.00001	-0.00001	0.00001
	S1	0.00406	0.00478	0.00732

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00036	0.00117
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00014	-0.00014	-0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00155	0.00177	0.00257
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00015	-0.00014	-0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00035	0.00036	0.00038

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00150	0.00175	0.00265
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00014	-0.00013	-0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00014	0.00015
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00034	0.00124
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00017	0.00017	0.00017
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00034	-0.00034	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	0.00011	0.00092
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00014	0.00014	0.00014
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00014	-0.00014	-0.00014
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00125	0.00147	0.00229
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00017	-0.00016	-0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00028	0.00029	0.00030

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00177	0.00201	0.00291
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00014	-0.00014	-0.00014
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00014	0.00014	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00041	0.00065	0.00155
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00027	-0.00026	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00015	-0.00014	-0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00028	0.00028	0.00029
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00052	0.00072	0.00145
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00013	0.00014	0.00015
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00014
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00191	0.00210	0.00282

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00017	0.00017	0.00017
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00026	-0.00026	-0.00026
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00189	0.00212	0.00293
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00014	0.00014	0.00014
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00051	0.00073	0.00155

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00004	0.00023	0.00096
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00014	0.00015
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00014
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00144	0.00163	0.00236
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00018
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00024	0.00025	0.00026

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00238	0.00260	0.00341
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00014	0.00014	0.00015
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00099	0.00120	0.00202
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00020	0.00018	0.00153
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00233	0.00272	0.00407
	(A * B * C * !D * !S1 * Y)	0.00199	0.00237	0.00372
	(A * B * C * !D * !S1 * Y)	-0.00010	-0.00008	-0.00007
	(A * B * C * !D * !S1 * Y)	0.00007	0.00008	0.00011
	(A * B * C * !D * !S1 * Y)	0.00377	0.00413	0.00546
	(A * B * !C * D * !S1 * Y)	-0.00019	0.00052	0.00305
	(A * B * !C * D * !S1 * Y)	0.00013	0.00014	0.00015
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00014	-0.00013
	(A * B * !C * D * !S1 * Y)	0.00312	0.00384	0.00637
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00011	0.00028	0.00164
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00243	0.00281	0.00419
	(A * !B * C * D * S1 * Y)	0.00125	0.00165	0.00306
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00007
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00011
	(A * !B * C * D * S1 * Y)	0.00304	0.00342	0.00480
	(A * !B * !C * !D * S1 * !Y)	0.00115	0.00154	0.00297
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00010	0.00013
	(A * !B * !C * !D * S1 * !Y)	0.00294	0.00333	0.00472
	(!A * B * C * D * S1 * Y)	-0.00034	0.00040	0.00299
	(!A * B * C * D * S1 * Y)	0.00012	0.00013	0.00014
	(!A * B * C * D * S1 * Y)	-0.00014	-0.00013	-0.00009
	(!A * B * C * D * S1 * Y)	0.00291	0.00366	0.00626
	(!A * B * !C * !D * S1 * !Y)	-0.00005	0.00070	0.00330
	(!A * B * !C * !D * S1 * !Y)	0.00013	0.00014	0.00015
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00013	-0.00011
	(!A * B * !C * !D * S1 * !Y)	0.00322	0.00397	0.00658
	(!A * !B * C * !D * !S1 * !Y)	0.00171	0.00208	0.00343
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00008	-0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00009	0.00009	0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00346	0.00382	0.00516
	(!A * !B * !C * D * !S1 * !Y)	-0.00003	0.00068	0.00322
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00013	0.00014
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	-0.00013	-0.00013
	(!A * !B * !C * D * !S1 * !Y)	0.00328	0.00398	0.00652

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7L	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00212	0.00257	0.00410
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00041	0.00003	0.00156
	(A * B * C * !D * !S1 * Y)	0.00292	0.00336	0.00493
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00013
	(A * B * C * !D * !S1 * Y)	-0.00010	-0.00008	-0.00007
	(A * B * C * !D * !S1 * Y)	0.00113	0.00161	0.00320
	(A * B * !C * D * !S1 * Y)	0.00331	0.00413	0.00692
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00013	-0.00013
	(A * B * !C * D * !S1 * Y)	0.00013	0.00014	0.00016
	(A * B * !C * D * !S1 * Y)	-0.00002	0.00081	0.00361
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00202	0.00246	0.00398
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00004	-0.00003	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00052	-0.00008	0.00144
	(A * !B * C * D * S1 * Y)	0.00255	0.00301	0.00462
	(A * !B * C * D * S1 * Y)	0.00007	0.00008	0.00009
	(A * !B * C * D * S1 * Y)	-0.00011	-0.00009	-0.00008
	(A * !B * C * D * S1 * Y)	0.00076	0.00123	0.00289
	(A * !B * !C * !D * S1 * !Y)	0.00264	0.00309	0.00470
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00009	0.00013
	(A * !B * !C * !D * S1 * !Y)	-0.00011	-0.00009	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00083	0.00131	0.00296
	(!A * B * C * D * S1 * Y)	0.00313	0.00397	0.00684
	(!A * B * C * D * S1 * Y)	-0.00014	-0.00013	-0.00012
	(!A * B * C * D * S1 * Y)	0.00009	0.00013	0.00014
	(!A * B * C * D * S1 * Y)	-0.00014	0.00071	0.00357
	(!A * B * !C * !D * S1 * !Y)	0.00281	0.00365	0.00652
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00013	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00011	0.00013	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00046	0.00039	0.00325
	(!A * !B * C * !D * !S1 * !Y)	0.00323	0.00367	0.00521
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00008	0.00008
	(!A * !B * C * !D * !S1 * !Y)	-0.00012	-0.00009	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00147	0.00192	0.00351
	(!A * !B * !C * D * !S1 * !Y)	0.00315	0.00396	0.00676
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	-0.00012	-0.00008
	(!A * !B * !C * D * !S1 * !Y)	0.00013	0.00013	0.00014
	(!A * !B * !C * D * !S1 * !Y)	-0.00013	0.00067	0.00346

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * D * S0 * Y)	-0.00009	0.00022	0.00133
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00003	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00108	0.00141	0.00251
	(A * C * !S0 * Y)	-0.00009	0.00023	0.00133
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00108	0.00141	0.00251
	(!B * !D * S0 * !Y)	0.00000	0.00034	0.00144
	(!B * !D * S0 * !Y)	0.00000	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * S0 * !Y)	0.00119	0.00152	0.00263
	(!A * !C * !S0 * !Y)	0.00000	0.00033	0.00144
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !S0 * !Y)	0.00118	0.00152	0.00263

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7L	(B * D * S0 * Y)	0.00103	0.00140	0.00261
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00001	0.00002	0.00003
	(B * D * S0 * Y)	-0.00015	0.00021	0.00143
	(A * C * !S0 * Y)	0.00103	0.00140	0.00262
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00015	0.00022	0.00143
	(!B * !D * S0 * !Y)	0.00093	0.00129	0.00250
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00026	0.00011	0.00132
	(!A * !C * !S0 * !Y)	0.00093	0.00129	0.00250
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00026	0.00011	0.00132

MUXI2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P5H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P5H7L	0.00072	0.00076	0.00189	0.02458

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P5H7L	0.00000	2.62598	3.71580

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7L	A->Y (FR)	-	0.02765	0.15333	0.54512
	B->Y (FR)	-	0.02759	0.15243	0.54451
	S0->Y (RR)	(A * !B)	0.02446	0.12126	0.40983
	S0->Y (FR)	(!A * B)	0.02538	0.14199	0.45238

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7L	A->Y (RF)	-	0.02106	0.10379	0.38981
	B->Y (RF)	-	0.01961	0.10194	0.38861
	S0->Y (FF)	(A * !B)	0.02727	0.11555	0.34801
	S0->Y (RF)	(!A * B)	0.00916	0.09186	0.33534

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7L	A	-	0.00094	0.00112	0.00207
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00007	0.00007	0.00007
	A	-	0.00001	0.00020	0.00114
	B	-	0.00106	0.00125	0.00221
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00006	0.00007	0.00007
	B	-	0.00012	0.00031	0.00126
	S0	(A * !B)	0.00028	0.00081	0.00241
	S0	(A * !B)	-0.00002	-0.00002	-0.00002
	S0	(A * !B)	0.00002	0.00002	0.00003
	S0	(A * !B)	0.00111	0.00163	0.00324
	S0	(!A * B)	0.00139	0.00184	0.00364
	S0	(!A * B)	-0.00005	-0.00005	-0.00003
	S0	(!A * B)	0.00005	0.00005	0.00005
	S0	(!A * B)	-0.00003	0.00042	0.00222

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7L	A	-	0.00014	0.00032	0.00117
	A	-	0.00006	0.00006	0.00007
	A	-	-0.00007	-0.00007	-0.00006
	A	-	0.00107	0.00124	0.00211
	B	-	-0.00007	0.00011	0.00098
	B	-	0.00006	0.00006	0.00006
	B	-	-0.00007	-0.00007	-0.00006
	B	-	0.00087	0.00104	0.00192
	S0	(A * !B)	0.00118	0.00169	0.00340
	S0	(A * !B)	0.00002	0.00002	0.00002
	S0	(A * !B)	-0.00002	-0.00002	-0.00002
	S0	(A * !B)	0.00035	0.00086	0.00258
	S0	(!A * B)	-0.00014	0.00026	0.00192
	S0	(!A * B)	0.00003	0.00005	0.00005
	S0	(!A * B)	-0.00005	-0.00005	-0.00004
	S0	(!A * B)	0.00128	0.00168	0.00334

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	0.00024	0.00122
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00003	0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	0.00057	0.00088	0.00186

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00056	0.00089	0.00197
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00003	0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00026	0.00133

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	0.00026	0.00121
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00003	0.00003	0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00061	0.00090	0.00186

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00064	0.00096	0.00201
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00003	0.00003	0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00000	0.00032	0.00136

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(A * B * !Y)	-0.00009	0.00018	0.00109
	(A * B * !Y)	0.00001	0.00001	0.00001
	(A * B * !Y)	-0.00001	-0.00001	0.00000
	(A * B * !Y)	0.00104	0.00131	0.00221
	(!A * !B * Y)	-0.00022	0.00006	0.00097
	(!A * !B * Y)	0.00000	0.00001	0.00001
	(!A * !B * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * Y)	0.00090	0.00117	0.00209

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7L	(A * B * !Y)	0.00091	0.00121	0.00221
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00000	0.00001	0.00001
	(A * B * !Y)	-0.00022	0.00008	0.00108
	(!A * !B * Y)	0.00102	0.00133	0.00232
	(!A * !B * Y)	-0.00001	-0.00001	0.00000
	(!A * !B * Y)	0.00001	0.00001	0.00001
	(!A * !B * Y)	-0.00009	0.00020	0.00120

MUXI2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P7H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P7H7L	0.00077	0.00079	0.00194	0.02787

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P7H7L	0.00000	2.75134	3.88286

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7L	A->Y (FR)	-	0.02559	0.15141	0.54579
	B->Y (FR)	-	0.02574	0.15071	0.54492
	S0->Y (RR)	(A * !B)	0.02392	0.12120	0.41170
	S0->Y (FR)	(!A * B)	0.02379	0.14104	0.45300

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7L	A->Y (RF)	-	0.01962	0.10165	0.38786
	B->Y (RF)	-	0.01811	0.09982	0.38670
	S0->Y (FF)	(A * !B)	0.02698	0.11521	0.34740
	S0->Y (RF)	(!A * B)	0.00525	0.09035	0.33512

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7L	A	-	0.00099	0.00120	0.00226
	A	-	-0.00007	-0.00007	-0.00007
	A	-	0.00007	0.00008	0.00008
	A	-	-0.00001	0.00021	0.00126
	B	-	0.00113	0.00134	0.00242
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00007	0.00008	0.00008
	B	-	0.00013	0.00035	0.00141
	S0	(A * !B)	0.00033	0.00089	0.00257
	S0	(A * !B)	-0.00003	-0.00002	-0.00002
	S0	(A * !B)	0.00003	0.00003	0.00004
	S0	(A * !B)	0.00113	0.00170	0.00339
	S0	(!A * B)	0.00144	0.00189	0.00379
	S0	(!A * B)	-0.00005	-0.00005	-0.00004
	S0	(!A * B)	0.00005	0.00006	0.00006
	S0	(!A * B)	-0.00004	0.00043	0.00233

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7L	A	-	0.00015	0.00035	0.00130
	A	-	0.00007	0.00007	0.00007
	A	-	-0.00008	-0.00008	-0.00007
	A	-	0.00114	0.00134	0.00231
	B	-	-0.00008	0.00012	0.00109
	B	-	0.00007	0.00007	0.00007
	B	-	-0.00008	-0.00007	-0.00007
	B	-	0.00092	0.00111	0.00209
	S0	(A * !B)	0.00122	0.00175	0.00354
	S0	(A * !B)	0.00002	0.00002	0.00003
	S0	(A * !B)	-0.00003	-0.00003	-0.00003
	S0	(A * !B)	0.00040	0.00093	0.00272
	S0	(!A * B)	-0.00013	0.00028	0.00202
	S0	(!A * B)	0.00005	0.00005	0.00005
	S0	(!A * B)	-0.00006	-0.00005	-0.00004
	S0	(!A * B)	0.00132	0.00174	0.00349

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00026	0.00135
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00003	0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	0.00060	0.00094	0.00203

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00059	0.00097	0.00215
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00003	-0.00003	-0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00003	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00029	0.00147

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	0.00029	0.00135
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00003	0.00003	0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00064	0.00097	0.00203

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00066	0.00103	0.00218
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	-0.00003	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00003	0.00003	0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00001	0.00035	0.00150

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(A * B * !Y)	-0.00009	0.00017	0.00108
	(A * B * !Y)	0.00001	0.00001	0.00001
	(A * B * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !Y)	0.00106	0.00132	0.00222
	(!A * !B * Y)	-0.00020	0.00006	0.00097
	(!A * !B * Y)	0.00001	0.00002	0.00002
	(!A * !B * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * Y)	0.00093	0.00120	0.00212

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7L	(A * B * !Y)	0.00094	0.00124	0.00223
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00001	0.00002	0.00002
	(A * B * !Y)	-0.00021	0.00009	0.00108
	(!A * !B * Y)	0.00103	0.00134	0.00233
	(!A * !B * Y)	-0.00002	-0.00001	-0.00001
	(!A * !B * Y)	0.00001	0.00001	0.00001
	(!A * !B * Y)	-0.00010	0.00020	0.00119

MUXI2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1H7L	0.00082	0.00086	0.00202	0.03298

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1H7L	0.00000	2.96324	4.16525

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7L	A->Y (FR)	-	0.02304	0.14881	0.54579
	B->Y (FR)	-	0.02364	0.14874	0.54529
	S0->Y (RR)	(A * !B)	0.02306	0.12081	0.41371
	S0->Y (FR)	(!A * B)	0.02155	0.13967	0.45532

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7L	A->Y (RF)	-	0.01804	0.10015	0.38880
	B->Y (RF)	-	0.01673	0.09865	0.38778
	S0->Y (FF)	(A * !B)	0.02656	0.11547	0.34974
	S0->Y (RF)	(!A * B)	0.00102	0.08947	0.33728

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7L	A	-	0.00106	0.00130	0.00255
	A	-	-0.00009	-0.00009	-0.00008
	A	-	0.00009	0.00009	0.00009
	A	-	-0.00002	0.00023	0.00146
	B	-	0.00124	0.00149	0.00274
	B	-	-0.00009	-0.00009	-0.00008
	B	-	0.00009	0.00009	0.00009
	B	-	0.00014	0.00039	0.00163
	S0	(A * !B)	0.00038	0.00098	0.00278
	S0	(A * !B)	-0.00003	-0.00003	-0.00003
	S0	(A * !B)	0.00003	0.00003	0.00004
	S0	(A * !B)	0.00121	0.00182	0.00362
	S0	(!A * B)	0.00146	0.00196	0.00402
	S0	(!A * B)	-0.00006	-0.00006	-0.00005
	S0	(!A * B)	0.00006	0.00006	0.00006
	S0	(!A * B)	-0.00007	0.00043	0.00248

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7L	A	-	0.00016	0.00039	0.00150
	A	-	0.00008	0.00009	0.00009
	A	-	-0.00009	-0.00009	-0.00009
	A	-	0.00124	0.00146	0.00259
	B	-	-0.00009	0.00014	0.00126
	B	-	0.00009	0.00009	0.00009
	B	-	-0.00009	-0.00009	-0.00009
	B	-	0.00100	0.00123	0.00236
	S0	(A * !B)	0.00126	0.00184	0.00375
	S0	(A * !B)	0.00003	0.00003	0.00003
	S0	(A * !B)	-0.00004	-0.00003	-0.00003
	S0	(A * !B)	0.00042	0.00100	0.00291
	S0	(!A * B)	-0.00014	0.00029	0.00218
	S0	(!A * B)	0.00006	0.00006	0.00006
	S0	(!A * B)	-0.00006	-0.00006	-0.00005
	S0	(!A * B)	0.00139	0.00182	0.00372

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	0.00030	0.00154
	(B * S0 * !Y) + (!B * S0 * Y)	0.00004	0.00004	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	0.00065	0.00104	0.00228

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00065	0.00108	0.00244
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	0.00004	0.00004	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00035	0.00170

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	0.00033	0.00155
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00004	0.00004	0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00004	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00071	0.00109	0.00230

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00073	0.00114	0.00247
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00004	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00004	0.00004	0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	0.00039	0.00171

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(A * B * !Y)	-0.00009	0.00017	0.00107
	(A * B * !Y)	0.00001	0.00001	0.00001
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00110	0.00136	0.00226
	(!A * !B * Y)	-0.00021	0.00006	0.00096
	(!A * !B * Y)	-0.00001	0.00001	0.00002
	(!A * !B * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * Y)	0.00098	0.00124	0.00215

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7L	(A * B * !Y)	0.00097	0.00126	0.00225
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00001	0.00001	0.00002
	(A * B * !Y)	-0.00022	0.00007	0.00106
	(!A * !B * Y)	0.00107	0.00137	0.00236
	(!A * !B * Y)	-0.00002	-0.00001	0.00001
	(!A * !B * Y)	0.00001	0.00001	0.00001
	(!A * !B * Y)	-0.00011	0.00019	0.00117

MUXI2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1P4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1P4H7L	0.00089	0.00092	0.00210	0.03753

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1P4H7L	0.00000	3.19954	4.48018

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7L	A->Y (FR)	-	0.02156	0.14723	0.54463
	B->Y (FR)	-	0.02242	0.14744	0.54514
	S0->Y (RR)	(A * !B)	0.02269	0.12074	0.41548
	S0->Y (FR)	(!A * B)	0.02022	0.13883	0.45569

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7L	A->Y (RF)	-	0.01701	0.09828	0.38658
	B->Y (RF)	-	0.01576	0.09685	0.38507
	S0->Y (FF)	(A * !B)	0.02634	0.11522	0.34889
	S0->Y (RF)	(!A * B)	-0.00264	0.08806	0.33619

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7L	A	-	0.00115	0.00142	0.00284
	A	-	-0.00010	-0.00010	-0.00010
	A	-	0.00010	0.00010	0.00010
	A	-	-0.00003	0.00025	0.00165
	B	-	0.00136	0.00163	0.00306
	B	-	-0.00010	-0.00010	-0.00010
	B	-	0.00010	0.00010	0.00010
	B	-	0.00016	0.00044	0.00185
	S0	(A * !B)	0.00043	0.00108	0.00301
	S0	(A * !B)	-0.00004	-0.00004	-0.00004
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	0.00127	0.00192	0.00385
	S0	(!A * B)	0.00151	0.00204	0.00424
	S0	(!A * B)	-0.00007	-0.00007	-0.00004
	S0	(!A * B)	0.00006	0.00007	0.00007
	S0	(!A * B)	-0.00009	0.00044	0.00263

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7L	A	-	0.00017	0.00042	0.00169
	A	-	0.00010	0.00010	0.00010
	A	-	-0.00010	-0.00010	-0.00010
	A	-	0.00135	0.00160	0.00288
	B	-	-0.00010	0.00015	0.00142
	B	-	0.00010	0.00010	0.00010
	B	-	-0.00010	-0.00010	-0.00010
	B	-	0.00110	0.00135	0.00264
	S0	(A * !B)	0.00131	0.00192	0.00396
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	-0.00004	-0.00004	-0.00004
	S0	(A * !B)	0.00046	0.00108	0.00312
	S0	(!A * B)	-0.00014	0.00031	0.00233
	S0	(!A * B)	0.00006	0.00007	0.00007
	S0	(!A * B)	-0.00007	-0.00007	-0.00006
	S0	(!A * B)	0.00147	0.00192	0.00394

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	0.00034	0.00173
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00070	0.00114	0.00254

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00071	0.00120	0.00272
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	0.00039	0.00192

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	0.00038	0.00174
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00078	0.00120	0.00257

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00078	0.00125	0.00274
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	0.00043	0.00192

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(A * B * !Y)	-0.00009	0.00017	0.00106
	(A * B * !Y)	0.00001	0.00001	0.00001
	(A * B * !Y)	-0.00001	-0.00001	-0.00000
	(A * B * !Y)	0.00114	0.00140	0.00229
	(!A * !B * Y)	-0.00021	0.00005	0.00095
	(!A * !B * Y)	0.00001	0.00002	0.00003
	(!A * !B * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * Y)	0.00102	0.00128	0.00218

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7L	(A * B * !Y)	0.00099	0.00129	0.00227
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00001	0.00001	0.00002
	(A * B * !Y)	-0.00024	0.00006	0.00104
	(!A * !B * Y)	0.00110	0.00140	0.00238
	(!A * !B * Y)	-0.00001	-0.00001	0.00001
	(!A * !B * Y)	0.00001	0.00001	0.00001
	(!A * !B * Y)	-0.00012	0.00017	0.00115

MUXI2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X2H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X2H7L	0.00146	0.00141	0.00251	0.04823

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X2H7L	0.00000	4.59546	6.34073

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7L	A->Y (FR)	-	0.02441	0.14916	0.54036
	B->Y (FR)	-	0.02682	0.15113	0.54272
	S0->Y (RR)	(A * !B)	0.02884	0.12814	0.41850
	S0->Y (FR)	(!A * B)	0.02078	0.13911	0.45545

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7L	A->Y (RF)	-	0.02006	0.10175	0.38674
	B->Y (RF)	-	0.01823	0.10051	0.38608
	S0->Y (FF)	(A * !B)	0.03318	0.12510	0.36344
	S0->Y (RF)	(!A * B)	-0.00079	0.08947	0.33884

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7L	A	-	0.00187	0.00225	0.00420
	A	-	-0.00013	-0.00013	-0.00012
	A	-	0.00013	0.00013	0.00013
	A	-	0.00007	0.00045	0.00238
	B	-	0.00239	0.00277	0.00471
	B	-	-0.00013	-0.00013	-0.00012
	B	-	0.00013	0.00013	0.00013
	B	-	0.00060	0.00098	0.00291
	S0	(A * !B)	0.00114	0.00196	0.00423
	S0	(A * !B)	-0.00005	-0.00005	-0.00004
	S0	(A * !B)	0.00004	0.00006	0.00006
	S0	(A * !B)	0.00202	0.00285	0.00511
	S0	(!A * B)	0.00186	0.00248	0.00516
	S0	(!A * B)	-0.00008	-0.00008	-0.00006
	S0	(!A * B)	0.00008	0.00009	0.00010
	S0	(!A * B)	-0.00007	0.00054	0.00321

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7L	A	-	0.00038	0.00073	0.00249
	A	-	0.00012	0.00013	0.00013
	A	-	-0.00013	-0.00013	-0.00013
	A	-	0.00218	0.00253	0.00431
	B	-	-0.00013	0.00022	0.00198
	B	-	0.00012	0.00013	0.00013
	B	-	-0.00013	-0.00013	-0.00012
	B	-	0.00165	0.00200	0.00378
	S0	(A * !B)	0.00172	0.00247	0.00485
	S0	(A * !B)	0.00004	0.00005	0.00007
	S0	(A * !B)	-0.00006	-0.00006	-0.00004
	S0	(A * !B)	0.00082	0.00159	0.00397
	S0	(!A * B)	-0.00003	0.00049	0.00294
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	-0.00009	-0.00009	-0.00006
	S0	(!A * B)	0.00192	0.00243	0.00489

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00016	0.00042	0.00234
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00113	0.00171	0.00363

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00136	0.00200	0.00409
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00072	0.00281

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00001	0.00060	0.00254
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00006	0.00006	0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00006	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00126	0.00186	0.00380

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00110	0.00175	0.00387
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00006	-0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00006	0.00006	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00016	0.00050	0.00261

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(A * B * !Y)	-0.00009	0.00015	0.00099
	(A * B * !Y)	0.00001	0.00001	0.00001
	(A * B * !Y)	-0.00003	-0.00001	-0.00000
	(A * B * !Y)	0.00133	0.00157	0.00241
	(!A * !B * Y)	-0.00010	0.00015	0.00101
	(!A * !B * Y)	0.00000	0.00001	0.00002
	(!A * !B * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * Y)	0.00132	0.00156	0.00242

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7L	(A * B * !Y)	0.00124	0.00151	0.00245
	(A * B * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !Y)	0.00000	0.00002	0.00004
	(A * B * !Y)	-0.00019	0.00009	0.00103
	(!A * !B * Y)	0.00122	0.00150	0.00243
	(!A * !B * Y)	-0.00002	-0.00001	0.00000
	(!A * !B * Y)	0.00001	0.00001	0.00001
	(!A * !B * Y)	-0.00019	0.00009	0.00102

MUXI2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X3H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X3H7L	0.00175	0.00171	0.00276	0.06470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X3H7L	0.00000	5.50779	7.56539

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7L	A->Y (FR)	-	0.02033	0.14220	0.52903
	B->Y (FR)	-	0.02246	0.14392	0.53067
	S0->Y (RR)	(A * !B)	0.02459	0.12173	0.41396
	S0->Y (FR)	(!A * B)	0.01763	0.13406	0.44634

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7L	A->Y (RF)	-	0.01681	0.09491	0.37304
	B->Y (RF)	-	0.01523	0.09387	0.37337
	S0->Y (FF)	(A * !B)	0.02884	0.11793	0.34840
	S0->Y (RF)	(!A * B)	-0.01009	0.08430	0.33170

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7L	A	-	0.00221	0.00272	0.00539
	A	-	-0.00017	-0.00017	-0.00016
	A	-	0.00018	0.00019	0.00019
	A	-	0.00004	0.00057	0.00320
	B	-	0.00276	0.00327	0.00594
	B	-	-0.00017	-0.00017	-0.00016
	B	-	0.00018	0.00019	0.00019
	B	-	0.00059	0.00112	0.00376
	S0	(A * !B)	0.00127	0.00231	0.00521
	S0	(A * !B)	-0.00007	-0.00007	-0.00006
	S0	(A * !B)	0.00006	0.00008	0.00011
	S0	(A * !B)	0.00219	0.00323	0.00613
	S0	(!A * B)	0.00206	0.00284	0.00627
	S0	(!A * B)	-0.00011	-0.00010	-0.00007
	S0	(!A * B)	0.00011	0.00012	0.00013
	S0	(!A * B)	-0.00011	0.00067	0.00408

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7L	A	-	0.00038	0.00087	0.00325
	A	-	0.00016	0.00017	0.00017
	A	-	-0.00019	-0.00018	-0.00018
	A	-	0.00254	0.00302	0.00544
	B	-	-0.00019	0.00030	0.00268
	B	-	0.00017	0.00017	0.00017
	B	-	-0.00019	-0.00018	-0.00018
	B	-	0.00197	0.00245	0.00487
	S0	(A * !B)	0.00188	0.00281	0.00584
	S0	(A * !B)	0.00006	0.00007	0.00008
	S0	(A * !B)	-0.00008	-0.00008	-0.00006
	S0	(A * !B)	0.00096	0.00188	0.00492
	S0	(!A * B)	-0.00004	0.00061	0.00374
	S0	(!A * B)	0.00010	0.00011	0.00011
	S0	(!A * B)	-0.00012	-0.00012	-0.00011
	S0	(!A * B)	0.00213	0.00279	0.00593

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00021	0.00056	0.00310
	(B * S0 * !Y) + (!B * S0 * Y)	0.00008	0.00008	0.00008
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	0.00134	0.00212	0.00466

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00163	0.00250	0.00527
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * !Y) + (!B * S0 * Y)	0.00009	0.00009	0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	0.00008	0.00095	0.00372

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	0.00077	0.00334
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00008	0.00008	0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00009	-0.00009	-0.00008
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00150	0.00230	0.00488

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00129	0.00219	0.00500
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00008	0.00009	0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00023	0.00065	0.00346

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(A * B * !Y)	-0.00011	0.00018	0.00121
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	-0.00000
	(A * B * !Y)	0.00145	0.00174	0.00278
	(!A * !B * Y)	-0.00011	0.00019	0.00124
	(!A * !B * Y)	0.00000	0.00002	0.00002
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00143	0.00174	0.00279

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7L	(A * B * !Y)	0.00137	0.00171	0.00286
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00000	0.00002	0.00003
	(A * B * !Y)	-0.00020	0.00015	0.00130
	(!A * !B * Y)	0.00134	0.00169	0.00283
	(!A * !B * Y)	-0.00002	-0.00001	0.00000
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00020	0.00014	0.00128

MUXI2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X4H7L	0.00234	0.00238	0.00315	0.08285

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X4H7L	0.00000	7.26976	9.63993

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7L	A->Y (FR)	-	0.01880	0.14084	0.52862
	B->Y (FR)	-	0.02063	0.13859	0.51547
	S0->Y (RR)	(A * !B)	0.02309	0.11884	0.41153
	S0->Y (FR)	(!A * B)	0.01590	0.13254	0.44297

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7L	A->Y (RF)	-	0.00749	0.09050	0.36237
	B->Y (RF)	-	0.01098	0.09051	0.36436
	S0->Y (FF)	(A * !B)	0.02758	0.11575	0.34227
	S0->Y (RF)	(!A * B)	-0.01748	0.08168	0.33090

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7L	A	-	0.00267	0.00335	0.00692
	A	-	-0.00022	-0.00022	-0.00021
	A	-	0.00024	0.00024	0.00025
	A	-	-0.00012	0.00059	0.00412
	B	-	0.00342	0.00416	0.00795
	B	-	-0.00022	-0.00022	-0.00021
	B	-	0.00024	0.00024	0.00024
	B	-	0.00056	0.00133	0.00509
	S0	(A * !B)	0.00147	0.00275	0.00634
	S0	(A * !B)	-0.00009	-0.00009	-0.00007
	S0	(A * !B)	0.00010	0.00011	0.00014
	S0	(A * !B)	0.00247	0.00375	0.00732
	S0	(!A * B)	0.00231	0.00326	0.00747
	S0	(!A * B)	-0.00014	-0.00013	-0.00011
	S0	(!A * B)	0.00014	0.00015	0.00018
	S0	(!A * B)	-0.00018	0.00076	0.00495

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7L	A	-	0.00047	0.00112	0.00431
	A	-	0.00021	0.00022	0.00022
	A	-	-0.00025	-0.00024	-0.00023
	A	-	0.00326	0.00389	0.00710
	B	-	-0.00027	0.00044	0.00385
	B	-	0.00021	0.00022	0.00022
	B	-	-0.00024	-0.00024	-0.00024
	B	-	0.00259	0.00328	0.00671
	S0	(A * !B)	0.00223	0.00334	0.00707
	S0	(A * !B)	0.00007	0.00009	0.00011
	S0	(A * !B)	-0.00011	-0.00011	-0.00010
	S0	(A * !B)	0.00123	0.00234	0.00608
	S0	(!A * B)	-0.00008	0.00071	0.00453
	S0	(!A * B)	0.00013	0.00013	0.00014
	S0	(!A * B)	-0.00016	-0.00015	-0.00011
	S0	(!A * B)	0.00241	0.00321	0.00705

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(B * S0 * !Y) + (!B * S0 * Y)	-0.00028	0.00075	0.00409
	(B * S0 * !Y) + (!B * S0 * Y)	0.00011	0.00011	0.00011
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00012	-0.00011	-0.00011
	(B * S0 * !Y) + (!B * S0 * Y)	0.00176	0.00279	0.00614

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(B * S0 * !Y) + (!B * S0 * Y)	0.00197	0.00313	0.00681
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !Y) + (!B * S0 * Y)	0.00011	0.00012	0.00012
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	0.00109	0.00477

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00009	0.00103	0.00461
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00010	0.00011	0.00011
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00201	0.00313	0.00671

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00173	0.00298	0.00688
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00010	0.00011	0.00011
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00036	0.00089	0.00479

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(A * B * !Y)	-0.00012	0.00022	0.00142
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00003	-0.00002	-0.00002
	(A * B * !Y)	0.00164	0.00198	0.00318
	(!A * !B * Y)	-0.00009	0.00027	0.00149
	(!A * !B * Y)	0.00000	0.00002	0.00002
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00165	0.00201	0.00325

Passive power(pJ) for S0 falling (conditional):

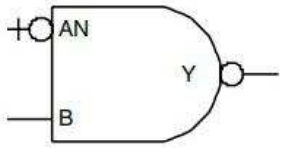
Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7L	(A * B * !Y)	0.00161	0.00202	0.00336
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00002	0.00003	0.00004
	(A * B * !Y)	-0.00016	0.00025	0.00159
	(!A * !B * Y)	0.00152	0.00193	0.00328
	(!A * !B * Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00021	0.00019	0.00153

NAND2BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P5H7L	0.00085	0.00078	0.04328

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P5H7L	0.00000	1.21636	2.18394

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7L	AN->Y (RR)	0.02761	0.14346	0.43437
	B->Y (FR)	0.01601	0.16824	0.65473

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7L	AN->Y (FF)	0.03370	0.18208	0.56127
	B->Y (RF)	0.01683	0.16440	0.64017

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	AN	0.00055	0.00083	0.00183
	AN	-0.00002	-0.00002	-0.00001
	AN	0.00003	0.00003	0.00003
	AN	0.00092	0.00120	0.00220
	B	0.00052	0.00068	0.00169
	B	-0.00003	-0.00003	-0.00003
	B	0.00001	0.00001	0.00002
	B	-0.00006	0.00011	0.00109

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	AN	0.00086	0.00118	0.00221
	AN	0.00001	0.00002	0.00002
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00050	0.00081	0.00185
	B	-0.00005	0.00008	0.00097
	B	0.00003	0.00003	0.00003
	B	-0.00002	-0.00001	-0.00001
	B	0.00049	0.00065	0.00156

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	(!B * Y)	0.00006	0.00033	0.00125
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	0.00073	0.00100	0.00192

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	(!B * Y)	0.00071	0.00101	0.00202
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00001	0.00002	0.00002
	(!B * Y)	0.00005	0.00035	0.00136

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	(AN * Y)	-0.00022	-0.00022	-0.00021
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B falling (conditional):

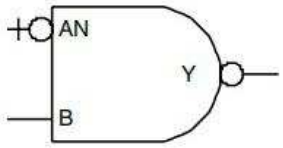
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7L	(AN * Y)	0.00022	0.00022	0.00022
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00001
	(AN * Y)	-0.00011	-0.00011	-0.00011

NAND2BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P7H7L	0.00086	0.00081	0.04684

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P7H7L	0.00000	1.25392	2.25613

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7L	AN->Y (RR)	0.02693	0.13847	0.41721
	B->Y (FR)	0.01469	0.16179	0.63788

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7L	AN->Y (FF)	0.03293	0.17526	0.53799
	B->Y (RF)	0.01526	0.15573	0.61596

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	AN	0.00059	0.00088	0.00188
	AN	-0.00002	-0.00002	-0.00002
	AN	0.00004	0.00004	0.00004
	AN	0.00094	0.00123	0.00223
	B	0.00054	0.00071	0.00184
	B	-0.00003	-0.00003	-0.00003
	B	0.00001	0.00002	0.00002
	B	-0.00007	0.00011	0.00123

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	AN	0.00089	0.00120	0.00224
	AN	0.00002	0.00002	0.00002
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00054	0.00085	0.00189
	B	-0.00005	0.00009	0.00110
	B	0.00003	0.00003	0.00004
	B	-0.00002	-0.00002	-0.00001
	B	0.00050	0.00069	0.00172

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	(!B * Y)	0.00008	0.00034	0.00125
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	0.00076	0.00102	0.00193

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	(!B * Y)	0.00072	0.00102	0.00203
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00001	0.00002	0.00002
	(!B * Y)	0.00005	0.00035	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	(AN * Y)	-0.00023	-0.00023	-0.00022
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B falling (conditional):

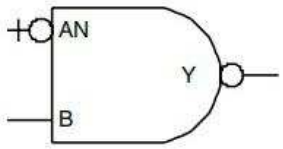
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7L	(AN * Y)	0.00023	0.00023	0.00023
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	-0.00011	-0.00011	-0.00011

NAND2BX12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX12H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX12H7L	0.00202	0.00618	0.45292

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX12H7L	0.00000	7.06075	13.20310

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7L	AN->Y (RR)	0.02698	0.14734	0.43929
	B->Y (FR)	0.00979	0.15747	0.64322

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7L	AN->Y (FF)	0.03501	0.18807	0.56910
	B->Y (RF)	-0.00546	0.15070	0.62041

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7L	AN	0.00611	0.00715	0.01139
	AN	-0.00030	-0.00030	-0.00029
	AN	0.00026	0.00046	0.00047
	AN	0.00482	0.00586	0.01009
	B	0.00402	0.00572	0.01685
	B	-0.00035	-0.00035	-0.00033
	B	0.00013	0.00016	0.00022
	B	-0.00089	0.00095	0.01191

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7L	AN	0.00476	0.00589	0.01017
	AN	0.00029	0.00030	0.00034
	AN	-0.00047	-0.00046	-0.00026
	AN	0.00611	0.00723	0.01151
	B	-0.00016	0.00130	0.01137
	B	0.00034	0.00035	0.00036
	B	-0.00017	-0.00016	-0.00013
	B	0.00373	0.00605	0.01630

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7L	(!B * Y)	0.00140	0.00212	0.00475
	(!B * Y)	0.00007	0.00007	0.00008
	(!B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	0.00306	0.00378	0.00642

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7L	(!B * Y)	0.00300	0.00387	0.00686
	(!B * Y)	-0.00008	-0.00007	-0.00007
	(!B * Y)	0.00007	0.00008	0.00008
	(!B * Y)	0.00141	0.00227	0.00526

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7L	(AN * Y)	-0.00198	-0.00197	-0.00195
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	0.00015	0.00015	0.00016
	(AN * Y)	0.00054	0.00055	0.00055

Passive power(pJ) for B falling (conditional):

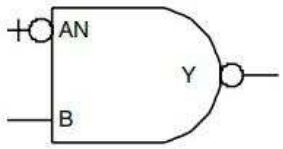
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7L	(AN * Y)	0.00196	0.00198	0.00199
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	-0.00016	-0.00015	-0.00014
	(AN * Y)	-0.00055	-0.00054	-0.00053

NAND2BX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX16H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX16H7L	0.00781	0.00828	0.60244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX16H7L	0.00000	14.65880	26.38760

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7L	AN->Y (RR)	0.01878	0.12844	0.40560
	B->Y (FR)	0.00968	0.15697	0.64241

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7L	AN->Y (FF)	0.02322	0.16522	0.52911
	B->Y (RF)	-0.00626	0.15047	0.62023

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7L	AN	0.00742	0.01150	0.02514
	AN	-0.00025	-0.00025	-0.00024
	AN	0.00047	0.00048	0.00048
	AN	0.00959	0.01370	0.02734
	B	0.00535	0.00760	0.02250
	B	-0.00047	-0.00046	-0.00043
	B	0.00019	0.00022	0.00027
	B	-0.00123	0.00123	0.01588

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7L	AN	0.00910	0.01366	0.02800
	AN	0.00024	0.00025	0.00028
	AN	-0.00048	-0.00048	-0.00047
	AN	0.00701	0.01152	0.02584
	B	-0.00024	0.00171	0.01521
	B	0.00045	0.00047	0.00047
	B	-0.00022	-0.00021	-0.00019
	B	0.00530	0.00808	0.02180

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7L	(!B * Y)	0.00121	0.00496	0.01742
	(!B * Y)	0.00024	0.00024	0.00025
	(!B * Y)	-0.00025	-0.00024	-0.00024
	(!B * Y)	0.00731	0.01111	0.02359

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7L	(!B * Y)	0.00679	0.01109	0.02489
	(!B * Y)	-0.00025	-0.00024	-0.00024
	(!B * Y)	0.00024	0.00024	0.00025
	(!B * Y)	0.00071	0.00502	0.01881

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7L	(AN * Y)	-0.00266	-0.00264	-0.00262
	(AN * Y)	-0.00003	-0.00003	-0.00002
	(AN * Y)	0.00018	0.00020	0.00024
	(AN * Y)	0.00070	0.00073	0.00075

Passive power(pJ) for B falling (conditional):

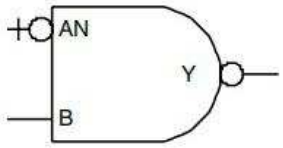
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7L	(AN * Y)	0.00265	0.00266	0.00267
	(AN * Y)	0.00002	0.00003	0.00003
	(AN * Y)	-0.00023	-0.00020	-0.00018
	(AN * Y)	-0.00072	-0.00071	-0.00069

NAND2BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1H7L	0.00084	0.00091	0.05879

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1H7L	0.00000	1.31665	2.37707

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7L	AN->Y (RR)	0.02644	0.14462	0.44048
	B->Y (FR)	0.01362	0.16688	0.65954

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7L	AN->Y (FF)	0.03271	0.18321	0.56634
	B->Y (RF)	0.01265	0.16237	0.64252

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7L	AN	0.00068	0.00096	0.00198
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00004	0.00005	0.00005
	AN	0.00098	0.00127	0.00228
	B	0.00061	0.00080	0.00212
	B	-0.00004	-0.00004	-0.00004
	B	0.00001	0.00002	0.00002
	B	-0.00008	0.00012	0.00141

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7L	AN	0.00094	0.00125	0.00229
	AN	0.00003	0.00003	0.00003
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00064	0.00095	0.00199
	B	-0.00007	0.00010	0.00127
	B	0.00004	0.00004	0.00004
	B	-0.00002	-0.00002	-0.00001
	B	0.00055	0.00078	0.00197

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7L	(!B * Y)	0.00010	0.00036	0.00126
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	0.00077	0.00104	0.00194

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7L	(!B * Y)	0.00075	0.00105	0.00204
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00001	0.00002	0.00002
	(!B * Y)	0.00008	0.00038	0.00137

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7L	(AN * Y)	-0.00026	-0.00026	-0.00026
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B falling (conditional):

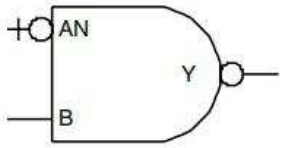
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7L	(AN * Y)	0.00026	0.00026	0.00026
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	-0.00012	-0.00012	-0.00012

NAND2BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1P4H7L	0.00087	0.00097	0.06421

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1P4H7L	0.00000	1.38611	2.51228

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7L	AN->Y (RR)	0.02598	0.14027	0.42501
	B->Y (FR)	0.01271	0.16121	0.64414

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7L	AN->Y (FF)	0.03224	0.17727	0.54588
	B->Y (RF)	0.00843	0.15465	0.62100

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	AN	0.00074	0.00102	0.00206
	AN	-0.00004	-0.00003	-0.00003
	AN	0.00006	0.00006	0.00006
	AN	0.00102	0.00131	0.00234
	B	0.00064	0.00086	0.00236
	B	-0.00005	-0.00005	-0.00005
	B	0.00002	0.00002	0.00003
	B	-0.00012	0.00013	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	AN	0.00097	0.00128	0.00233
	AN	0.00003	0.00003	0.00004
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00069	0.00100	0.00205
	B	-0.00007	0.00012	0.00145
	B	0.00005	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00002
	B	0.00052	0.00085	0.00221

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	(!B * Y)	0.00012	0.00038	0.00127
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00081	0.00107	0.00197

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	(!B * Y)	0.00076	0.00105	0.00204
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00008	0.00037	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	(AN * Y)	-0.00029	-0.00028	-0.00028
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B falling (conditional):

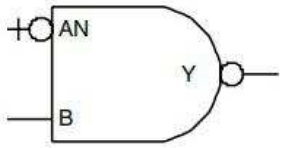
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7L	(AN * Y)	0.00028	0.00028	0.00029
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	-0.00012	-0.00012	-0.00012

NAND2BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX2H7L	0.00085	0.00145	0.08115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX2H7L	0.00000	1.77623	3.27702

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7L	AN->Y (RR)	0.03161	0.14850	0.43364
	B->Y (FR)	0.01291	0.15764	0.62963

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7L	AN->Y (FF)	0.03959	0.18840	0.56086
	B->Y (RF)	0.00954	0.15289	0.61169

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7L	AN	0.00119	0.00148	0.00254
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00008	0.00008	0.00012
	AN	0.00138	0.00168	0.00274
	B	0.00093	0.00128	0.00341
	B	-0.00006	-0.00006	-0.00005
	B	0.00001	0.00003	0.00003
	B	-0.00014	0.00020	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7L	AN	0.00138	0.00169	0.00278
	AN	0.00004	0.00005	0.00005
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00119	0.00150	0.00259
	B	-0.00007	0.00021	0.00213
	B	0.00006	0.00006	0.00006
	B	-0.00003	-0.00003	-0.00001
	B	0.00094	0.00129	0.00324

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7L	(!B * Y)	0.00027	0.00050	0.00132
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00102	0.00125	0.00207

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7L	(!B * Y)	0.00098	0.00124	0.00215
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00024	0.00050	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7L	(AN * Y)	-0.00039	-0.00039	-0.00038
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00003	0.00003	0.00003
	(AN * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

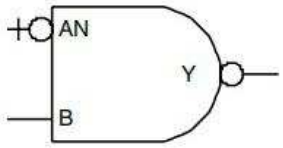
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7L	(AN * Y)	0.00038	0.00039	0.00039
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00025	-0.00025	-0.00025

NAND2BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX3H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX3H7L	0.00087	0.00168	0.11810

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX3H7L	0.00000	2.03194	3.77640

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7L	AN->Y (RR)	0.03160	0.15357	0.45065
	B->Y (FR)	0.01124	0.15971	0.64338

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7L	AN->Y (FF)	0.03993	0.19207	0.57114
	B->Y (RF)	0.00201	0.15222	0.61717

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7L	AN	0.00153	0.00182	0.00302
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00006	0.00012	0.00012
	AN	0.00157	0.00187	0.00307
	B	0.00108	0.00156	0.00445
	B	-0.00009	-0.00009	-0.00008
	B	0.00003	0.00004	0.00008
	B	-0.00019	0.00028	0.00312

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7L	AN	0.00151	0.00183	0.00304
	AN	0.00007	0.00007	0.00008
	AN	-0.00012	-0.00012	-0.00006
	AN	0.00147	0.00179	0.00300
	B	-0.00008	0.00030	0.00289
	B	0.00009	0.00009	0.00009
	B	-0.00004	-0.00004	-0.00003
	B	0.00111	0.00157	0.00422

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7L	(!B * Y)	0.00037	0.00059	0.00138
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00113	0.00135	0.00215

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7L	(!B * Y)	0.00103	0.00128	0.00217
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00028	0.00053	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7L	(AN * Y)	-0.00049	-0.00049	-0.00048
	(AN * Y)	-0.00001	-0.00001	-0.00000
	(AN * Y)	0.00004	0.00004	0.00004
	(AN * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

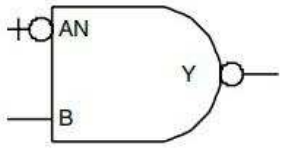
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7L	(AN * Y)	0.00049	0.00049	0.00049
	(AN * Y)	0.00000	0.00001	0.00001
	(AN * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y)	-0.00023	-0.00023	-0.00022

NAND2BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX4H7L	0.00107	0.00288	0.16213

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX4H7L	0.00000	3.09560	5.81002

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7L	AN->Y (RR)	0.03194	0.15157	0.44048
	B->Y (FR)	0.01190	0.15647	0.63118

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7L	AN->Y (FF)	0.04123	0.19442	0.57423
	B->Y (RF)	0.00493	0.15160	0.61177

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7L	AN	0.00250	0.00291	0.00457
	AN	-0.00010	-0.00010	-0.00009
	AN	0.00008	0.00016	0.00016
	AN	0.00242	0.00284	0.00449
	B	0.00190	0.00264	0.00699
	B	-0.00012	-0.00012	-0.00011
	B	0.00002	0.00006	0.00012
	B	-0.00026	0.00047	0.00476

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7L	AN	0.00240	0.00286	0.00459
	AN	0.00009	0.00010	0.00010
	AN	-0.00016	-0.00016	-0.00008
	AN	0.00249	0.00295	0.00468
	B	-0.00015	0.00044	0.00437
	B	0.00012	0.00012	0.00012
	B	-0.00006	-0.00005	-0.00002
	B	0.00185	0.00260	0.00659

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7L	(!B * Y)	0.00059	0.00088	0.00196
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00163	0.00192	0.00300

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7L	(!B * Y)	0.00161	0.00195	0.00317
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00059	0.00093	0.00215

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7L	(AN * Y)	-0.00080	-0.00079	-0.00078
	(AN * Y)	-0.00001	-0.00001	-0.00000
	(AN * Y)	0.00006	0.00006	0.00006
	(AN * Y)	0.00046	0.00047	0.00047

Passive power(pJ) for B falling (conditional):

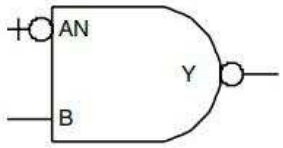
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7L	(AN * Y)	0.00079	0.00079	0.00080
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y)	-0.00047	-0.00047	-0.00046

NAND2BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX6H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX6H7L	0.00118	0.00312	0.22829

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX6H7L	0.00000	3.53038	6.60157

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7L	AN->Y (RR)	0.02810	0.14927	0.44353
	B->Y (FR)	0.01022	0.15883	0.64560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7L	AN->Y (FF)	0.03640	0.18979	0.57201
	B->Y (RF)	-0.00341	0.15171	0.62124

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7L	AN	0.00300	0.00350	0.00557
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00023	0.00023	0.00023
	AN	0.00249	0.00300	0.00506
	B	0.00193	0.00288	0.00840
	B	-0.00018	-0.00017	-0.00016
	B	0.00007	0.00008	0.00011
	B	-0.00043	0.00048	0.00591

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7L	AN	0.00245	0.00300	0.00508
	AN	0.00015	0.00015	0.00021
	AN	-0.00023	-0.00023	-0.00023
	AN	0.00298	0.00352	0.00560
	B	-0.00012	0.00059	0.00558
	B	0.00016	0.00017	0.00018
	B	-0.00008	-0.00008	-0.00007
	B	0.00201	0.00298	0.00806

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7L	(!B * Y)	0.00066	0.00101	0.00231
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00164	0.00199	0.00329

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7L	(!B * Y)	0.00162	0.00205	0.00353
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	0.00067	0.00110	0.00258

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7L	(AN * Y)	-0.00099	-0.00098	-0.00097
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00007	0.00008	0.00008
	(AN * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

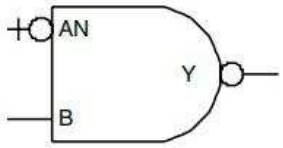
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7L	(AN * Y)	0.00099	0.00099	0.00100
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00008	-0.00007	-0.00007
	(AN * Y)	-0.00029	-0.00028	-0.00028

NAND2BX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX8H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX8H7L	0.00179	0.00413	0.30442

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX8H7L	0.00000	5.10827	9.48163

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7L	AN->Y (RR)	0.02504	0.14338	0.43264
	B->Y (FR)	0.01002	0.15861	0.64582

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7L	AN->Y (FF)	0.03244	0.18320	0.56065
	B->Y (RF)	-0.00469	0.15133	0.62121

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7L	AN	0.00404	0.00488	0.00818
	AN	-0.00019	-0.00019	-0.00019
	AN	0.00030	0.00030	0.00030
	AN	0.00349	0.00435	0.00763
	B	0.00269	0.00381	0.01122
	B	-0.00023	-0.00023	-0.00022
	B	0.00006	0.00011	0.00013
	B	-0.00059	0.00063	0.00791

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7L	AN	0.00344	0.00437	0.00769
	AN	0.00019	0.00019	0.00019
	AN	-0.00030	-0.00030	-0.00030
	AN	0.00401	0.00495	0.00825
	B	-0.00013	0.00083	0.00752
	B	0.00023	0.00023	0.00024
	B	-0.00011	-0.00010	-0.00006
	B	0.00255	0.00400	0.01081

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7L	(!B * Y)	0.00087	0.00153	0.00389
	(!B * Y)	0.00006	0.00006	0.00006
	(!B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	0.00231	0.00297	0.00533

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7L	(!B * Y)	0.00230	0.00308	0.00574
	(!B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	0.00006	0.00006	0.00006
	(!B * Y)	0.00090	0.00169	0.00435

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7L	(AN * Y)	-0.00133	-0.00131	-0.00130
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00010	0.00010	0.00011
	(AN * Y)	0.00036	0.00037	0.00038

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7L	(AN * Y)	0.00131	0.00132	0.00133
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00010	-0.00009	-0.00009
	(AN * Y)	-0.00037	-0.00037	-0.00036

NAND2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P5H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P5H7L	0.00076	0.00074	0.04049

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P5H7L	0.00000	0.55986	1.09308

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7L	A->Y (FR)	0.01618	0.16114	0.62978
	B->Y (FR)	0.01742	0.16354	0.63193

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7L	A->Y (RF)	0.01706	0.15648	0.61084
	B->Y (RF)	0.01793	0.15593	0.59378

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	A	0.00054	0.00072	0.00172
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00001	0.00002
	A	-0.00008	0.00008	0.00107
	B	0.00061	0.00080	0.00169
	B	-0.00003	-0.00003	-0.00003
	B	0.00005	0.00005	0.00005
	B	-0.00013	0.00002	0.00090

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	A	-0.00008	0.00006	0.00094
	A	0.00003	0.00003	0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00054	0.00069	0.00160
	B	-0.00008	0.00003	0.00077
	B	0.00003	0.00003	0.00003
	B	-0.00005	-0.00005	-0.00004
	B	0.00069	0.00081	0.00157

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	(!B * Y)	-0.00021	-0.00021	-0.00021
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00001	0.00002	0.00002
	(!B * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	(!B * Y)	0.00021	0.00021	0.00021
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00001	-0.00002	-0.00001
	(!B * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	(!A * Y)	-0.00015	-0.00015	-0.00015
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7L	(!A * Y)	0.00016	0.00016	0.00017
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	-0.00022	-0.00022	-0.00021

NAND2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P7H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P7H7L	0.00076	0.00081	0.04683

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P7H7L	0.00000	0.59742	1.16528

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7L	A->Y (FR)	0.01606	0.16432	0.63818
	B->Y (FR)	0.01492	0.16197	0.63727

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7L	A->Y (RF)	0.01629	0.15531	0.59704
	B->Y (RF)	0.01552	0.15596	0.61617

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	A	0.00067	0.00084	0.00184
	A	-0.00003	-0.00003	-0.00003
	A	0.00005	0.00005	0.00005
	A	-0.00014	0.00003	0.00101
	B	0.00057	0.00076	0.00188
	B	-0.00003	-0.00003	-0.00003
	B	0.00002	0.00002	0.00002
	B	-0.00010	0.00008	0.00119

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	A	-0.00008	0.00003	0.00087
	A	0.00003	0.00003	0.00003
	A	-0.00005	-0.00005	-0.00005
	A	0.00073	0.00085	0.00171
	B	-0.00008	0.00006	0.00106
	B	0.00003	0.00003	0.00003
	B	-0.00002	-0.00002	-0.00001
	B	0.00054	0.00073	0.00175

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	(!B * Y)	-0.00016	-0.00016	-0.00016
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	(!B * Y)	0.00016	0.00017	0.00018
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	(!A * Y)	-0.00023	-0.00023	-0.00023
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7L	(!A * Y)	0.00023	0.00023	0.00023
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00009	-0.00009	-0.00009

NAND2X12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X12H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X12H7L	0.00588	0.00571	0.45399

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X12H7L	0.00000	5.09400	9.90935

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7L	A->Y (FR)	0.00905	0.15687	0.64400
	B->Y (FR)	0.01097	0.16065	0.64624

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7L	A->Y (RF)	-0.00904	0.14966	0.62069
	B->Y (RF)	-0.00670	0.14929	0.59759

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7L	A	0.00413	0.00584	0.01716
	A	-0.00035	-0.00035	-0.00032
	A	0.00013	0.00016	0.00019
	A	-0.00111	0.00073	0.01188
	B	0.00540	0.00717	0.01688
	B	-0.00035	-0.00035	-0.00033
	B	0.00051	0.00052	0.00052
	B	-0.00109	0.00052	0.01007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7L	A	-0.00085	0.00062	0.01092
	A	0.00034	0.00035	0.00036
	A	-0.00017	-0.00016	-0.00013
	A	0.00342	0.00573	0.01619
	B	-0.00082	0.00027	0.00897
	B	0.00034	0.00035	0.00036
	B	-0.00052	-0.00052	-0.00051
	B	0.00573	0.00704	0.01585

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7L	(!B * Y)	-0.00187	-0.00186	-0.00185
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	0.00015	0.00015	0.00015
	(!B * Y)	0.00039	0.00040	0.00040

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7L	(!B * Y)	0.00185	0.00187	0.00188
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00015	-0.00015	-0.00015
	(!B * Y)	-0.00039	-0.00039	-0.00039

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7L	(!A * Y)	-0.00129	-0.00128	-0.00128
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	0.00002	0.00002	0.00003
	(!A * Y)	0.00176	0.00177	0.00177

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7L	(!A * Y)	0.00132	0.00141	0.00150
	(!A * Y)	0.00001	0.00002	0.00002
	(!A * Y)	-0.00003	-0.00002	-0.00002
	(!A * Y)	-0.00163	-0.00154	-0.00140

NAND2X16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X16H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X16H7L	0.00786	0.00767	0.60342

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X16H7L	0.00000	6.79201	13.21250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7L	A->Y (FR)	0.00895	0.15645	0.64295
	B->Y (FR)	0.01089	0.16031	0.64559

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7L	A->Y (RF)	-0.00938	0.14950	0.62043
	B->Y (RF)	-0.00721	0.14909	0.59825

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7L	A	0.00554	0.00784	0.02294
	A	-0.00047	-0.00047	-0.00045
	A	0.00020	0.00022	0.00031
	A	-0.00147	0.00099	0.01587
	B	0.00735	0.00960	0.02255
	B	-0.00047	-0.00047	-0.00046
	B	0.00068	0.00069	0.00070
	B	-0.00146	0.00068	0.01343

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7L	A	-0.00114	0.00083	0.01458
	A	0.00045	0.00047	0.00047
	A	-0.00023	-0.00021	-0.00020
	A	0.00461	0.00765	0.02163
	B	-0.00109	0.00037	0.01200
	B	0.00046	0.00047	0.00047
	B	-0.00070	-0.00069	-0.00068
	B	0.00767	0.00944	0.02123

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7L	(!B * Y)	-0.00251	-0.00249	-0.00248
	(!B * Y)	-0.00003	-0.00002	-0.00002
	(!B * Y)	0.00020	0.00020	0.00020
	(!B * Y)	0.00052	0.00052	0.00052

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7L	(!B * Y)	0.00249	0.00251	0.00252
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	-0.00020	-0.00020	-0.00020
	(!B * Y)	-0.00051	-0.00051	-0.00051

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7L	(!A * Y)	-0.00173	-0.00172	-0.00172
	(!A * Y)	-0.00003	-0.00002	-0.00001
	(!A * Y)	0.00003	0.00003	0.00004
	(!A * Y)	0.00235	0.00236	0.00236

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7L	(!A * Y)	0.00178	0.00189	0.00202
	(!A * Y)	0.00001	0.00002	0.00003
	(!A * Y)	-0.00004	-0.00003	-0.00003
	(!A * Y)	-0.00217	-0.00205	-0.00186

NAND2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1H7L	0.00082	0.00087	0.05554

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1H7L	0.00000	0.66015	1.28622

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7L	A->Y (FR)	0.01474	0.16283	0.63839
	B->Y (FR)	0.01355	0.16046	0.63736

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7L	A->Y (RF)	0.01490	0.15468	0.60179
	B->Y (RF)	0.01234	0.15528	0.61742

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7L	A	0.00072	0.00093	0.00209
	A	-0.00004	-0.00004	-0.00004
	A	0.00006	0.00006	0.00006
	A	-0.00016	0.00003	0.00117
	B	0.00063	0.00083	0.00214
	B	-0.00004	-0.00004	-0.00004
	B	0.00002	0.00002	0.00002
	B	-0.00012	0.00010	0.00139

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7L	A	-0.00010	0.00003	0.00102
	A	0.00004	0.00004	0.00004
	A	-0.00006	-0.00006	-0.00006
	A	0.00078	0.00094	0.00194
	B	-0.00010	0.00007	0.00124
	B	0.00004	0.00004	0.00004
	B	-0.00002	-0.00002	-0.00002
	B	0.00054	0.00080	0.00199

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7L	(!B * Y)	-0.00018	-0.00018	-0.00018
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7L	(!B * Y)	0.00018	0.00019	0.00020
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7L	(!A * Y)	-0.00026	-0.00026	-0.00026
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7L	(!A * Y)	0.00026	0.00026	0.00026
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1P4H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1P4H7L	0.00090	0.00094	0.06415

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1P4H7L	0.00000	0.72961	1.42142

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7L	A->Y (FR)	0.01395	0.16350	0.64458
	B->Y (FR)	0.01264	0.16099	0.64398

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7L	A->Y (RF)	0.01157	0.15393	0.60195
	B->Y (RF)	0.00810	0.15438	0.62037

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	A	0.00079	0.00102	0.00234
	A	-0.00005	-0.00005	-0.00005
	A	0.00007	0.00007	0.00007
	A	-0.00019	0.00003	0.00132
	B	0.00067	0.00089	0.00239
	B	-0.00005	-0.00005	-0.00005
	B	0.00002	0.00002	0.00003
	B	-0.00015	0.00009	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	A	-0.00012	0.00003	0.00116
	A	0.00005	0.00005	0.00005
	A	-0.00007	-0.00007	-0.00007
	A	0.00086	0.00104	0.00218
	B	-0.00011	0.00008	0.00141
	B	0.00005	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00002
	B	0.00057	0.00088	0.00224

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	(!B * Y)	-0.00021	-0.00020	-0.00020
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	(!B * Y)	0.00021	0.00022	0.00022
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	-0.00026	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	(!A * Y)	-0.00028	-0.00028	-0.00028
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7L	(!A * Y)	0.00028	0.00028	0.00028
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X2H7L	0.00140	0.00146	0.08095

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X2H7L	0.00000	1.11973	2.18616

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7L	A->Y (FR)	0.01550	0.16195	0.63267
	B->Y (FR)	0.01326	0.15782	0.62965

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7L	A->Y (RF)	0.01309	0.15420	0.59682
	B->Y (RF)	0.00962	0.15318	0.61196

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7L	A	0.00134	0.00169	0.00352
	A	-0.00006	-0.00006	-0.00006
	A	0.00007	0.00009	0.00009
	A	-0.00017	0.00014	0.00194
	B	0.00106	0.00138	0.00350
	B	-0.00006	-0.00006	-0.00005
	B	0.00001	0.00003	0.00003
	B	-0.00019	0.00016	0.00224

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7L	A	-0.00016	0.00005	0.00162
	A	0.00006	0.00006	0.00006
	A	-0.00009	-0.00009	-0.00007
	A	0.00140	0.00163	0.00321
	B	-0.00016	0.00012	0.00203
	B	0.00006	0.00006	0.00006
	B	-0.00003	-0.00003	-0.00001
	B	0.00102	0.00135	0.00329

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7L	(!B * Y)	-0.00028	-0.00028	-0.00028
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7L	(!B * Y)	0.00029	0.00031	0.00035
	(!B * Y)	0.00000	0.00000	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	-0.00041	-0.00039	-0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7L	(!A * Y)	-0.00043	-0.00043	-0.00042
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00003	0.00002
	(!A * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7L	(!A * Y)	0.00043	0.00043	0.00043
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00015	-0.00015	-0.00015

NAND2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X3H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X3H7L	0.00166	0.00169	0.11771

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X3H7L	0.00000	1.37543	2.68554

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7L	A->Y (FR)	0.01308	0.16297	0.64554
	B->Y (FR)	0.01108	0.15915	0.64336

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7L	A->Y (RF)	0.00391	0.15248	0.60077
	B->Y (RF)	0.00034	0.15185	0.61768

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7L	A	0.00154	0.00202	0.00451
	A	-0.00009	-0.00009	-0.00009
	A	0.00013	0.00013	0.00013
	A	-0.00026	0.00016	0.00260
	B	0.00120	0.00164	0.00453
	B	-0.00009	-0.00009	-0.00008
	B	0.00004	0.00004	0.00007
	B	-0.00027	0.00020	0.00305

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7L	A	-0.00021	0.00006	0.00223
	A	0.00009	0.00009	0.00009
	A	-0.00013	-0.00013	-0.00013
	A	0.00163	0.00196	0.00416
	B	-0.00022	0.00016	0.00277
	B	0.00009	0.00009	0.00009
	B	-0.00004	-0.00004	-0.00004
	B	0.00102	0.00159	0.00425

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7L	(!B * Y)	-0.00035	-0.00035	-0.00035
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7L	(!B * Y)	0.00036	0.00039	0.00041
	(!B * Y)	0.00000	0.00000	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00048	-0.00046	-0.00041

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7L	(!A * Y)	-0.00052	-0.00052	-0.00051
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	0.00004	0.00004	0.00004
	(!A * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7L	(!A * Y)	0.00051	0.00052	0.00052
	(!A * Y)	0.00000	0.00001	0.00001
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00014	-0.00014	-0.00014

NAND2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X4H7L	0.00281	0.00278	0.16106

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X4H7L	0.00000	2.23945	4.37231

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7L	A->Y (FR)	0.01428	0.16008	0.63083
	B->Y (FR)	0.01182	0.15556	0.62841

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7L	A->Y (RF)	0.00695	0.15263	0.59533
	B->Y (RF)	0.00366	0.15145	0.61226

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7L	A	0.00265	0.00340	0.00713
	A	-0.00012	-0.00012	-0.00012
	A	0.00018	0.00018	0.00018
	A	-0.00034	0.00029	0.00395
	B	0.00195	0.00274	0.00709
	B	-0.00012	-0.00012	-0.00011
	B	0.00004	0.00006	0.00021
	B	-0.00036	0.00037	0.00465

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7L	A	-0.00032	0.00011	0.00335
	A	0.00012	0.00012	0.00012
	A	-0.00018	-0.00018	-0.00018
	A	0.00284	0.00328	0.00657
	B	-0.00033	0.00026	0.00421
	B	0.00012	0.00012	0.00012
	B	-0.00006	-0.00006	-0.00004
	B	0.00200	0.00263	0.00664

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7L	(!B * Y)	-0.00054	-0.00054	-0.00054
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00091	0.00092	0.00092

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7L	(!B * Y)	0.00056	0.00061	0.00067
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00086	-0.00081	-0.00072

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7L	(!A * Y)	-0.00085	-0.00084	-0.00083
	(!A * Y)	-0.00001	-0.00001	0.00000
	(!A * Y)	0.00005	0.00005	0.00005
	(!A * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7L	(!A * Y)	0.00084	0.00085	0.00085
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00005	-0.00005	-0.00005
	(!A * Y)	-0.00027	-0.00027	-0.00026

NAND2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X6H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X6H7L	0.00296	0.00285	0.22877

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X6H7L	0.00000	2.54700	4.95468

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7L	A->Y (FR)	0.00965	0.15829	0.64676
	B->Y (FR)	0.01138	0.16181	0.64877

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7L	A->Y (RF)	-0.00645	0.15080	0.62192
	B->Y (RF)	-0.00390	0.15036	0.59908

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7L	A	0.00209	0.00293	0.00853
	A	-0.00018	-0.00017	-0.00017
	A	0.00006	0.00008	0.00009
	A	-0.00051	0.00041	0.00592
	B	0.00268	0.00356	0.00839
	B	-0.00018	-0.00017	-0.00017
	B	0.00026	0.00026	0.00027
	B	-0.00052	0.00028	0.00502

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7L	A	-0.00042	0.00030	0.00538
	A	0.00017	0.00017	0.00018
	A	-0.00008	-0.00008	-0.00006
	A	0.00180	0.00283	0.00799
	B	-0.00040	0.00014	0.00443
	B	0.00017	0.00017	0.00018
	B	-0.00027	-0.00026	-0.00026
	B	0.00278	0.00347	0.00782

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7L	(!B * Y)	-0.00093	-0.00093	-0.00092
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00008	0.00008	0.00008
	(!B * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7L	(!B * Y)	0.00093	0.00093	0.00094
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00008	-0.00007	-0.00007
	(!B * Y)	-0.00018	-0.00018	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7L	(!A * Y)	-0.00063	-0.00063	-0.00062
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00087	0.00088	0.00088

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7L	(!A * Y)	0.00065	0.00069	0.00075
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00081	-0.00076	-0.00071

NAND2X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X8H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X8H7L	0.00395	0.00382	0.30505

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X8H7L	0.00000	3.39600	6.60624

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7L	A->Y (FR)	0.00942	0.15816	0.64753
	B->Y (FR)	0.01128	0.16185	0.64865

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7L	A->Y (RF)	-0.00760	0.15044	0.62116
	B->Y (RF)	-0.00499	0.15029	0.60103

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7L	A	0.00281	0.00394	0.01143
	A	-0.00024	-0.00023	-0.00022
	A	0.00008	0.00011	0.00013
	A	-0.00069	0.00054	0.00792
	B	0.00367	0.00481	0.01126
	B	-0.00023	-0.00023	-0.00023
	B	0.00034	0.00035	0.00035
	B	-0.00066	0.00040	0.00673

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7L	A	-0.00056	0.00041	0.00722
	A	0.00023	0.00023	0.00024
	A	-0.00011	-0.00011	-0.00008
	A	0.00236	0.00379	0.01072
	B	-0.00054	0.00018	0.00592
	B	0.00023	0.00023	0.00024
	B	-0.00035	-0.00035	-0.00034
	B	0.00377	0.00467	0.01049

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7L	(!B * Y)	-0.00126	-0.00125	-0.00124
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00010	0.00010	0.00010
	(!B * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7L	(!B * Y)	0.00124	0.00126	0.00126
	(!B * Y)	0.00001	0.00001	0.00002
	(!B * Y)	-0.00010	-0.00010	-0.00010
	(!B * Y)	-0.00025	-0.00025	-0.00024

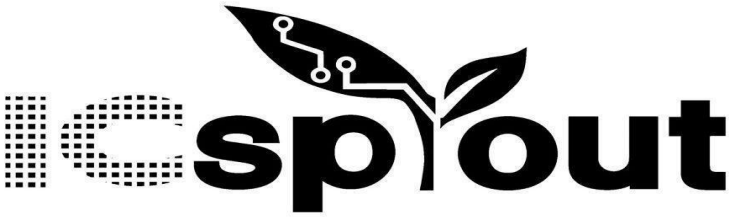
Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7L	(!A * Y)	-0.00086	-0.00085	-0.00085
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	0.00001	0.00002	0.00002
	(!A * Y)	0.00116	0.00116	0.00116

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7L	(!A * Y)	0.00088	0.00094	0.00099
	(!A * Y)	0.00000	0.00001	0.00002
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	-0.00107	-0.00101	-0.00091

NAND3BBX0P5H7L



Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P5H7L	0.00086	0.00073	0.00075	0.02813

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P5H7L	0.00000	1.70707	3.27702

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7L	AN->Y (RR)	0.03127	0.11080	0.30364
	BN->Y (RR)	0.03275	0.11393	0.30939
	C->Y (FR)	0.01778	0.13012	0.51317

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7L	AN->Y (FF)	0.04519	0.18324	0.53251
	BN->Y (FF)	0.04736	0.18876	0.54605
	C->Y (RF)	0.02497	0.16240	0.59497

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	AN	0.00063	0.00090	0.00187
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00006	0.00006	0.00006
	AN	0.00095	0.00123	0.00220
	BN	0.00079	0.00107	0.00199
	BN	-0.00003	-0.00003	-0.00002
	BN	0.00002	0.00003	0.00004
	BN	0.00110	0.00138	0.00231
	C	0.00053	0.00069	0.00156
	C	-0.00005	-0.00005	-0.00004
	C	0.00000	0.00002	0.00005
	C	-0.00004	0.00011	0.00097

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	AN	0.00111	0.00142	0.00242
	AN	0.00003	0.00003	0.00003
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00079	0.00110	0.00211
	BN	0.00106	0.00136	0.00236
	BN	0.00002	0.00003	0.00003
	BN	-0.00003	-0.00003	-0.00002
	BN	0.00074	0.00105	0.00205
	C	0.00010	0.00022	0.00097
	C	0.00004	0.00005	0.00005
	C	-0.00002	-0.00001	-0.00000
	C	0.00068	0.00080	0.00156

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(BN * C * Y) + (!BN * !C * Y)	0.00006	0.00032	0.00124
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00071	0.00098	0.00190
	(BN * !C * Y)	0.00005	0.00032	0.00124
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00071	0.00098	0.00190

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(BN * C * Y) + (!BN * !C * Y)	0.00072	0.00102	0.00203
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00007	0.00037	0.00138
	(BN * !C * Y)	0.00072	0.00102	0.00203
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	0.00006	0.00037	0.00137

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(AN * Y) + (!AN * !C * Y)	0.00015	0.00043	0.00135
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00004	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00080	0.00107	0.00199

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(AN * Y) + (!AN * !C * Y)	0.00064	0.00094	0.00194
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00004	0.00004
	(AN * Y) + (!AN * !C * Y)	-0.00000	0.00029	0.00129

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(BN * Y)	-0.00020	-0.00020	-0.00020
	(BN * Y)	-0.00000	-0.00000	-0.00000
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	0.00013	0.00013	0.00013
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00027
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7L	(BN * Y)	0.00020	0.00020	0.00020
	(BN * Y)	0.00000	0.00000	0.00000
	(BN * Y)	-0.00002	-0.00002	-0.00001
	(BN * Y)	-0.00013	-0.00013	-0.00013
	(AN * !BN * Y)	0.00027	0.00027	0.00027
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00007	-0.00007	-0.00007

NAND3BBX0P7H7L

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P7H7L	0.00087	0.00074	0.00082	0.03255

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P7H7L	0.00000	1.73452	3.34962

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7L	AN->Y (RR)	0.03034	0.11181	0.30918
	BN->Y (RR)	0.03158	0.11466	0.31526
	C->Y (FR)	0.01664	0.13055	0.52063

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7L	AN->Y (FF)	0.04349	0.18327	0.53690
	BN->Y (FF)	0.04521	0.18819	0.54964
	C->Y (RF)	0.02290	0.16144	0.59857

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	AN	0.00068	0.00096	0.00193
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00007	0.00007	0.00007
	AN	0.00097	0.00125	0.00222
	BN	0.00083	0.00111	0.00205
	BN	-0.00004	-0.00004	-0.00004
	BN	0.00004	0.00004	0.00004
	BN	0.00112	0.00140	0.00234
	C	0.00059	0.00075	0.00173
	C	-0.00005	-0.00005	-0.00005
	C	0.00001	0.00002	0.00005
	C	-0.00006	0.00011	0.00108

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	AN	0.00115	0.00145	0.00245
	AN	0.00004	0.00004	0.00004
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00087	0.00117	0.00218
	BN	0.00108	0.00138	0.00238
	BN	0.00004	0.00004	0.00004
	BN	-0.00004	-0.00004	-0.00004
	BN	0.00079	0.00110	0.00209
	C	0.00009	0.00023	0.00107
	C	0.00005	0.00005	0.00005
	C	-0.00002	-0.00002	-0.00001
	C	0.00074	0.00087	0.00173

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(BN * C * Y) + (!BN * !C * Y)	0.00007	0.00033	0.00124
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00073	0.00099	0.00191
	(BN * !C * Y)	0.00006	0.00033	0.00124
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00073	0.00099	0.00191

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(BN * C * Y) + (!BN * !C * Y)	0.00073	0.00103	0.00203
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00008	0.00038	0.00138
	(BN * !C * Y)	0.00073	0.00103	0.00203
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	0.00007	0.00037	0.00137

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(AN * Y) + (!AN * !C * Y)	0.00016	0.00044	0.00135
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y) + (!AN * !C * Y)	0.00082	0.00110	0.00201

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(AN * Y) + (!AN * !C * Y)	0.00065	0.00095	0.00194
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00004	0.00004
	(AN * Y) + (!AN * !C * Y)	-0.00001	0.00028	0.00128

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(BN * Y)	-0.00023	-0.00022	-0.00022
	(BN * Y)	-0.00000	-0.00000	-0.00000
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	0.00014	0.00014	0.00014
	(AN * !BN * Y)	-0.00030	-0.00030	-0.00029
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7L	(BN * Y)	0.00022	0.00022	0.00023
	(BN * Y)	0.00000	0.00000	0.00000
	(BN * Y)	-0.00002	-0.00002	-0.00002
	(BN * Y)	-0.00014	-0.00014	-0.00014
	(AN * !BN * Y)	0.00029	0.00030	0.00030
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * !BN * Y)	-0.00008	-0.00007	-0.00007

NAND3BBX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1H7L	0.00083	0.00083	0.00086	0.04117

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1H7L	0.00000	1.78001	2.94599

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7L	AN->Y (RR)	0.02766	0.11473	0.32645
	BN->Y (RR)	0.02797	0.11467	0.32667
	C->Y (FR)	0.01743	0.13922	0.54322

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7L	AN->Y (FF)	0.03954	0.18952	0.57054
	BN->Y (FF)	0.04104	0.19119	0.57244
	C->Y (RF)	0.02546	0.16499	0.58332

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	AN	0.00071	0.00100	0.00197
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00000	0.00001	0.00001
	AN	0.00113	0.00143	0.00240
	BN	0.00062	0.00090	0.00188
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00005	0.00005	0.00005
	BN	0.00103	0.00132	0.00230
	C	0.00064	0.00086	0.00190
	C	-0.00006	-0.00006	-0.00006
	C	0.00010	0.00010	0.00010
	C	-0.00006	0.00012	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	AN	0.00109	0.00140	0.00246
	AN	0.00005	0.00005	0.00005
	AN	-0.00001	-0.00001	0.00000
	AN	0.00066	0.00097	0.00203
	BN	0.00120	0.00151	0.00252
	BN	0.00005	0.00005	0.00005
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00079	0.00109	0.00210
	C	0.00032	0.00043	0.00123
	C	0.00006	0.00006	0.00006
	C	-0.00010	-0.00010	-0.00010
	C	0.00106	0.00118	0.00199

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(BN * Y)	0.00018	0.00045	0.00137
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00082	0.00109	0.00202
	(!BN * !C * Y)	0.00022	0.00049	0.00141
	(!BN * !C * Y)	0.00001	0.00002	0.00002
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00086	0.00113	0.00206

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(BN * Y)	0.00060	0.00090	0.00190
	(BN * Y)	-0.00002	-0.00002	-0.00001
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00004	0.00026	0.00126
	(!BN * !C * Y)	0.00058	0.00087	0.00187
	(!BN * !C * Y)	-0.00002	-0.00002	-0.00001
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00007	0.00023	0.00123

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(AN * Y) + (!AN * !C * Y)	0.00011	0.00037	0.00127
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00076	0.00102	0.00192

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(AN * Y) + (!AN * !C * Y)	0.00075	0.00105	0.00204
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00011	0.00040	0.00139

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(AN * BN * Y)	-0.00018	-0.00018	-0.00018
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00026	0.00026	0.00027
	(AN * !BN * Y)	-0.00024	-0.00024	-0.00024
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00000	0.00000	0.00001
	(AN * !BN * Y)	0.00021	0.00021	0.00021
	(!AN * BN * Y)	-0.00018	-0.00018	-0.00018
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7L	(AN * BN * Y)	0.00018	0.00018	0.00018
	(AN * BN * Y)	0.00000	0.00000	0.00000
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00026	-0.00026	-0.00025
	(AN * !BN * Y)	0.00025	0.00025	0.00026
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00001	-0.00000	-0.00000
	(AN * !BN * Y)	-0.00020	-0.00019	-0.00017
	(!AN * BN * Y)	0.00018	0.00019	0.00020
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	-0.00026	-0.00026	-0.00025

NAND3BBX1P4H7L

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1P4H7L	0.00083	0.00087	0.00088	0.04578

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1P4H7L	0.00000	1.83014	3.01467

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7L	AN->Y (RR)	0.02664	0.11230	0.32018
	BN->Y (RR)	0.02828	0.11446	0.32356
	C->Y (FR)	0.01605	0.13586	0.53578

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7L	AN->Y (FF)	0.03769	0.18404	0.55493
	BN->Y (FF)	0.04110	0.18848	0.56131
	C->Y (RF)	0.02319	0.15850	0.56849

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	AN	0.00071	0.00101	0.00200
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00000	0.00001	0.00002
	AN	0.00114	0.00145	0.00245
	BN	0.00068	0.00097	0.00195
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00006	0.00006	0.00006
	BN	0.00111	0.00139	0.00238
	C	0.00066	0.00090	0.00209
	C	-0.00007	-0.00007	-0.00007
	C	0.00012	0.00012	0.00012
	C	-0.00008	0.00013	0.00129

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	AN	0.00112	0.00144	0.00252
	AN	0.00006	0.00006	0.00006
	AN	-0.00001	-0.00001	0.00000
	AN	0.00068	0.00100	0.00208
	BN	0.00130	0.00160	0.00261
	BN	0.00006	0.00006	0.00007
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00088	0.00118	0.00220
	C	0.00036	0.00049	0.00142
	C	0.00007	0.00007	0.00008
	C	-0.00012	-0.00012	-0.00012
	C	0.00115	0.00128	0.00221

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(BN * Y)	0.00020	0.00047	0.00138
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	-0.00004	-0.00004	-0.00003
	(BN * Y)	0.00084	0.00112	0.00203
	(!BN * !C * Y)	0.00024	0.00051	0.00142
	(!BN * !C * Y)	0.00001	0.00002	0.00002
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00088	0.00116	0.00208

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(BN * Y)	0.00061	0.00090	0.00190
	(BN * Y)	-0.00002	-0.00002	-0.00002
	(BN * Y)	0.00004	0.00004	0.00004
	(BN * Y)	-0.00004	0.00026	0.00125
	(!BN * !C * Y)	0.00058	0.00087	0.00186
	(!BN * !C * Y)	-0.00002	-0.00002	-0.00001
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00008	0.00022	0.00121

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(AN * Y) + (!AN * !C * Y)	0.00015	0.00040	0.00128
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(AN * Y) + (!AN * !C * Y)	0.00081	0.00107	0.00195

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(AN * Y) + (!AN * !C * Y)	0.00080	0.00108	0.00206
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00001	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00013	0.00042	0.00139

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(AN * BN * Y)	-0.00018	-0.00018	-0.00018
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00000	0.00001	0.00001
	(AN * BN * Y)	0.00028	0.00028	0.00029
	(AN * !BN * Y)	-0.00024	-0.00024	-0.00024
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00000	0.00000	0.00001
	(AN * !BN * Y)	0.00023	0.00023	0.00023
	(!AN * BN * Y)	-0.00018	-0.00018	-0.00018
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7L	(AN * BN * Y)	0.00018	0.00018	0.00018
	(AN * BN * Y)	0.00000	0.00000	0.00000
	(AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * BN * Y)	-0.00028	-0.00028	-0.00027
	(AN * !BN * Y)	0.00025	0.00025	0.00026
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00001	-0.00000	-0.00000
	(AN * !BN * Y)	-0.00022	-0.00021	-0.00020
	(!AN * BN * Y)	0.00018	0.00019	0.00020
	(!AN * BN * Y)	0.00000	0.00000	0.00001
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	-0.00028	-0.00028	-0.00027

NAND3BBX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX2H7L	0.00097	0.00097	0.00090	0.02967

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX2H7L	0.00000	1.83905	3.13449

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7L	AN->Y (RR)	0.02588	0.08277	0.21941
	BN->Y (RR)	0.02603	0.08263	0.21899
	C->Y (FR)	0.01379	0.09208	0.37950

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7L	AN->Y (FF)	0.04149	0.17860	0.52624
	BN->Y (FF)	0.04287	0.17996	0.52817
	C->Y (RF)	0.03286	0.17102	0.57774

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	AN	0.00072	0.00109	0.00233
	AN	-0.00006	-0.00006	-0.00006
	AN	-0.00000	0.00000	0.00001
	AN	0.00124	0.00161	0.00286
	BN	0.00063	0.00099	0.00225
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00003	0.00003	0.00003
	BN	0.00114	0.00150	0.00276
	C	0.00068	0.00089	0.00187
	C	-0.00009	-0.00009	-0.00009
	C	0.00008	0.00008	0.00008
	C	-0.00004	0.00014	0.00111

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	AN	0.00121	0.00162	0.00293
	AN	0.00006	0.00006	0.00006
	AN	-0.00000	0.00000	0.00000
	AN	0.00069	0.00109	0.00240
	BN	0.00132	0.00171	0.00300
	BN	0.00006	0.00006	0.00006
	BN	-0.00003	-0.00003	-0.00003
	BN	0.00081	0.00121	0.00249
	C	0.00028	0.00040	0.00116
	C	0.00009	0.00009	0.00009
	C	-0.00008	-0.00008	-0.00008
	C	0.00104	0.00116	0.00193

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(BN * Y)	0.00017	0.00053	0.00174
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00093	0.00128	0.00249
	(!BN * !C * Y)	0.00020	0.00056	0.00176
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00002
	(!BN * !C * Y)	0.00096	0.00132	0.00252

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(BN * Y)	0.00069	0.00108	0.00237
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00007	0.00033	0.00162
	(!BN * !C * Y)	0.00066	0.00106	0.00235
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00009	0.00030	0.00159

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(AN * Y) + (!AN * !C * Y)	0.00010	0.00045	0.00163
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(AN * Y) + (!AN * !C * Y)	0.00085	0.00121	0.00239

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(AN * Y) + (!AN * !C * Y)	0.00083	0.00122	0.00250
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00001	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00007	0.00046	0.00175

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(AN * BN * Y)	-0.00023	-0.00023	-0.00023
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00000	0.00000	0.00001
	(AN * BN * Y)	0.00023	0.00023	0.00024
	(AN * !BN * Y)	-0.00028	-0.00028	-0.00028
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	0.00018	0.00018	0.00019
	(!AN * BN * Y)	-0.00023	-0.00023	-0.00022
	(!AN * BN * Y)	-0.00000	-0.00000	0.00000
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7L	(AN * BN * Y)	0.00023	0.00023	0.00023
	(AN * BN * Y)	0.00000	0.00000	0.00000
	(AN * BN * Y)	-0.00001	-0.00000	0.00000
	(AN * BN * Y)	-0.00023	-0.00023	-0.00022
	(AN * !BN * Y)	0.00029	0.00029	0.00030
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00000	-0.00000	0.00000
	(AN * !BN * Y)	-0.00017	-0.00017	-0.00016
	(!AN * BN * Y)	0.00023	0.00023	0.00025
	(!AN * BN * Y)	0.00000	0.00000	0.00001
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	-0.00023	-0.00023	-0.00022

NAND3BBX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX3H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX3H7L	0.00083	0.00084	0.00169	0.08575

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX3H7L	0.00000	2.28677	4.00540

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7L	AN->Y (RR)	0.02947	0.12288	0.34463
	BN->Y (RR)	0.03346	0.12829	0.35225
	C->Y (FR)	0.01526	0.13788	0.54453

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7L	AN->Y (FF)	0.04070	0.19645	0.58653
	BN->Y (FF)	0.04895	0.20743	0.60318
	C->Y (RF)	0.02246	0.16415	0.58408

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	AN	0.00125	0.00157	0.00273
	AN	-0.00012	-0.00012	-0.00011
	AN	0.00000	0.00003	0.00004
	AN	0.00153	0.00185	0.00301
	BN	0.00146	0.00175	0.00283
	BN	-0.00012	-0.00012	-0.00012
	BN	0.00012	0.00012	0.00012
	BN	0.00166	0.00195	0.00303
	C	0.00131	0.00179	0.00400
	C	-0.00014	-0.00013	-0.00013
	C	0.00022	0.00022	0.00022
	C	-0.00006	0.00032	0.00249

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	AN	0.00159	0.00192	0.00319
	AN	0.00012	0.00012	0.00012
	AN	-0.00003	-0.00003	-0.00000
	AN	0.00131	0.00164	0.00291
	BN	0.00203	0.00233	0.00334
	BN	0.00012	0.00012	0.00013
	BN	-0.00012	-0.00012	-0.00012
	BN	0.00184	0.00213	0.00314
	C	0.00082	0.00104	0.00274
	C	0.00013	0.00014	0.00014
	C	-0.00022	-0.00022	-0.00022
	C	0.00235	0.00256	0.00427

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(BN * Y)	0.00041	0.00065	0.00150
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	-0.00005	-0.00005	-0.00004
	(BN * Y)	0.00107	0.00131	0.00216
	(!BN * !C * Y)	0.00047	0.00072	0.00157
	(!BN * !C * Y)	0.00002	0.00002	0.00002
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00005
	(!BN * !C * Y)	0.00115	0.00139	0.00225

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(BN * Y)	0.00074	0.00100	0.00192
	(BN * Y)	-0.00002	-0.00002	-0.00002
	(BN * Y)	0.00005	0.00005	0.00005
	(BN * Y)	0.00008	0.00034	0.00126
	(!BN * !C * Y)	0.00068	0.00094	0.00186
	(!BN * !C * Y)	-0.00002	-0.00002	-0.00001
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	0.00001	0.00027	0.00119

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(AN * Y) + (!AN * !C * Y)	0.00033	0.00054	0.00132
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00000
	(AN * Y) + (!AN * !C * Y)	0.00098	0.00120	0.00198

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(AN * Y) + (!AN * !C * Y)	0.00109	0.00136	0.00225
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00001	0.00001
	(AN * Y) + (!AN * !C * Y)	0.00000	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00047	0.00072	0.00160

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(AN * BN * Y)	-0.00036	-0.00036	-0.00035
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00001	0.00002	0.00002
	(AN * BN * Y)	0.00050	0.00050	0.00050
	(AN * !BN * Y)	-0.00042	-0.00041	-0.00041
	(AN * !BN * Y)	-0.00001	-0.00000	-0.00000
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	0.00046	0.00046	0.00046
	(!AN * BN * Y)	-0.00036	-0.00036	-0.00035
	(!AN * BN * Y)	-0.00001	-0.00000	-0.00000
	(!AN * BN * Y)	0.00000	0.00001	0.00001
	(!AN * BN * Y)	0.00051	0.00052	0.00052

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7L	(AN * BN * Y)	0.00036	0.00036	0.00036
	(AN * BN * Y)	0.00000	0.00000	0.00001
	(AN * BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * BN * Y)	-0.00050	-0.00049	-0.00048
	(AN * !BN * Y)	0.00043	0.00044	0.00046
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	-0.00044	-0.00041	-0.00038
	(!AN * BN * Y)	0.00036	0.00037	0.00037
	(!AN * BN * Y)	0.00000	0.00001	0.00002
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(!AN * BN * Y)	-0.00050	-0.00049	-0.00046

NAND3BBX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX4H7L	0.00148	0.00150	0.00136	0.04808

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX4H7L	0.00000	2.73155	4.77953

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7L	AN->Y (RR)	0.02182	0.07373	0.20024
	BN->Y (RR)	0.02367	0.07656	0.20443
	C->Y (FR)	0.01076	0.07638	0.33285

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7L	AN->Y (FF)	0.03545	0.17012	0.51261
	BN->Y (FF)	0.03923	0.17495	0.51911
	C->Y (RF)	0.02939	0.17235	0.58998

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	AN	0.00101	0.00166	0.00384
	AN	-0.00013	-0.00012	-0.00012
	AN	-0.00000	0.00000	0.00001
	AN	0.00178	0.00244	0.00462
	BN	0.00105	0.00168	0.00382
	BN	-0.00013	-0.00012	-0.00010
	BN	0.00005	0.00005	0.00005
	BN	0.00185	0.00248	0.00462
	C	0.00102	0.00138	0.00307
	C	-0.00018	-0.00018	-0.00016
	C	0.00012	0.00012	0.00012
	C	-0.00017	0.00015	0.00181

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	AN	0.00188	0.00259	0.00480
	AN	0.00012	0.00012	0.00013
	AN	-0.00000	-0.00000	0.00000
	AN	0.00110	0.00181	0.00402
	BN	0.00215	0.00283	0.00498
	BN	0.00012	0.00012	0.00013
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00136	0.00204	0.00422
	C	0.00044	0.00065	0.00203
	C	0.00017	0.00018	0.00018
	C	-0.00012	-0.00012	-0.00012
	C	0.00170	0.00191	0.00329

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(BN * Y)	0.00026	0.00088	0.00295
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	-0.00005	-0.00005	-0.00004
	(BN * Y)	0.00142	0.00205	0.00412
	(!BN * !C * Y)	0.00029	0.00092	0.00299
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!BN * !C * Y)	0.00147	0.00209	0.00416

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(BN * Y)	0.00102	0.00170	0.00388
	(BN * Y)	-0.00006	-0.00006	-0.00006
	(BN * Y)	0.00004	0.00005	0.00005
	(BN * Y)	-0.00014	0.00053	0.00271
	(!BN * !C * Y)	0.00100	0.00167	0.00385
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00006
	(!BN * !C * Y)	0.00004	0.00004	0.00004
	(!BN * !C * Y)	-0.00018	0.00050	0.00267

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(AN * Y) + (!AN * !C * Y)	0.00024	0.00083	0.00284
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00145	0.00205	0.00406

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(AN * Y) + (!AN * !C * Y)	0.00128	0.00193	0.00407
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00003
	(AN * Y) + (!AN * !C * Y)	0.00007	0.00072	0.00286

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(AN * BN * Y)	-0.00040	-0.00040	-0.00040
	(AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * BN * Y)	0.00000	0.00001	0.00002
	(AN * BN * Y)	0.00034	0.00035	0.00036
	(AN * !BN * Y)	-0.00047	-0.00047	-0.00047
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	0.00029	0.00029	0.00029
	(!AN * BN * Y)	-0.00040	-0.00040	-0.00039
	(!AN * BN * Y)	-0.00002	-0.00001	-0.00000
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7L	(AN * BN * Y)	0.00040	0.00040	0.00040
	(AN * BN * Y)	0.00000	0.00001	0.00001
	(AN * BN * Y)	-0.00002	-0.00001	-0.00000
	(AN * BN * Y)	-0.00035	-0.00034	-0.00034
	(AN * !BN * Y)	0.00048	0.00049	0.00050
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00000	-0.00000	0.00000
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00026
	(!AN * BN * Y)	0.00040	0.00041	0.00041
	(!AN * BN * Y)	0.00001	0.00001	0.00002
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	-0.00035	-0.00034	-0.00033

NAND3BBX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX6H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX6H7L	0.00112	0.00113	0.00099	0.05759

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX6H7L	0.00000	2.56985	4.26872

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7L	AN->Y (RR)	0.02194	0.10777	0.32140
	BN->Y (RR)	0.02310	0.10904	0.32219
	C->Y (FR)	0.01582	0.14102	0.55620

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7L	AN->Y (FF)	0.03119	0.17936	0.55943
	BN->Y (FF)	0.03374	0.18232	0.56352
	C->Y (RF)	0.02184	0.16213	0.58590

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	AN	0.00082	0.00132	0.00295
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00000	0.00000	0.00002
	AN	0.00146	0.00197	0.00359
	BN	0.00078	0.00127	0.00289
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00006	0.00006	0.00006
	BN	0.00140	0.00188	0.00351
	C	0.00081	0.00107	0.00247
	C	-0.00009	-0.00009	-0.00009
	C	0.00014	0.00014	0.00014
	C	-0.00004	0.00020	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	AN	0.00138	0.00194	0.00371
	AN	0.00006	0.00006	0.00006
	AN	-0.00000	-0.00000	0.00000
	AN	0.00073	0.00128	0.00306
	BN	0.00157	0.00211	0.00381
	BN	0.00006	0.00006	0.00007
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00096	0.00149	0.00322
	C	0.00043	0.00057	0.00168
	C	0.00009	0.00009	0.00009
	C	-0.00014	-0.00014	-0.00014
	C	0.00130	0.00147	0.00259

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(BN * Y)	0.00020	0.00068	0.00225
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00005	-0.00005	-0.00005
	(BN * Y)	0.00108	0.00156	0.00314
	(!BN * !C * Y)	0.00024	0.00072	0.00229
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00005
	(!BN * !C * Y)	0.00112	0.00161	0.00318

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(BN * Y)	0.00077	0.00130	0.00302
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00005	0.00005	0.00006
	(BN * Y)	-0.00011	0.00042	0.00213
	(!BN * !C * Y)	0.00073	0.00127	0.00298
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	-0.00015	0.00038	0.00209

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(AN * Y) + (!AN * !C * Y)	0.00013	0.00059	0.00212
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00102	0.00148	0.00302

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(AN * Y) + (!AN * !C * Y)	0.00097	0.00150	0.00319
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	0.00009	0.00061	0.00230

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(AN * BN * Y)	-0.00021	-0.00021	-0.00021
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00031	0.00031	0.00031
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00027
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	0.00025	0.00026	0.00026
	(!AN * BN * Y)	-0.00021	-0.00021	-0.00021
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	0.00000	0.00000	0.00000
	(!AN * BN * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for C falling (conditional):

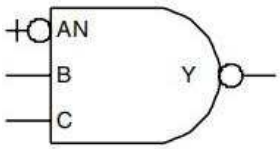
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7L	(AN * BN * Y)	0.00021	0.00021	0.00021
	(AN * BN * Y)	0.00000	0.00000	0.00000
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00031	-0.00030	-0.00030
	(AN * !BN * Y)	0.00028	0.00029	0.00030
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	-0.00024	-0.00023	-0.00020
	(!AN * BN * Y)	0.00021	0.00022	0.00023
	(!AN * BN * Y)	0.00000	0.00001	0.00001
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	-0.00031	-0.00030	-0.00029

NAND3BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P5H7L	0.00086	0.00069	0.00079	0.02923

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P5H7L	0.00000	1.05058	2.18616

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7L	AN->Y (RR)	0.03029	0.11213	0.31230
	B->Y (FR)	0.01818	0.13421	0.52573
	C->Y (FR)	0.01715	0.13191	0.52413

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7L	AN->Y (FF)	0.04288	0.18500	0.54583
	B->Y (RF)	0.02550	0.16706	0.60649
	C->Y (RF)	0.02401	0.16515	0.60781

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	AN	0.00076	0.00103	0.00201
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00006	0.00006	0.00006
	AN	0.00094	0.00121	0.00219
	B	0.00067	0.00084	0.00164
	B	-0.00005	-0.00005	-0.00004
	B	0.00005	0.00005	0.00006
	B	-0.00004	0.00011	0.00089
	C	0.00059	0.00074	0.00163
	C	-0.00005	-0.00005	-0.00004
	C	0.00000	0.00001	0.00002
	C	-0.00005	0.00011	0.00098

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	AN	0.00087	0.00118	0.00218
	AN	0.00003	0.00003	0.00003
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00070	0.00101	0.00201
	B	-0.00005	0.00004	0.00068
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00004
	B	0.00069	0.00078	0.00143
	C	-0.00003	0.00010	0.00086
	C	0.00005	0.00005	0.00005
	C	-0.00002	-0.00001	0.00000
	C	0.00060	0.00073	0.00151

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(B * !C * Y) + (!B * C * Y)	0.00005	0.00032	0.00123
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y) + (!B * C * Y)	0.00075	0.00101	0.00193
	(!B * !C * Y)	0.00004	0.00031	0.00123
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00074	0.00100	0.00192

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(B * !C * Y) + (!B * C * Y)	0.00072	0.00103	0.00203
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y) + (!B * C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00034	0.00135
	(!B * !C * Y)	0.00072	0.00102	0.00203
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00003	0.00034	0.00134

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(AN * C * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00002	0.00003	0.00003
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00013	-0.00013	-0.00012
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(AN * C * Y)	0.00013	0.00013	0.00013
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00013	0.00013	0.00013
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00017	0.00018	0.00019
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	-0.00016	-0.00016	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(AN * B * Y)	-0.00022	-0.00021	-0.00021
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00001	0.00002	0.00002
	(AN * B * Y)	0.00007	0.00008	0.00008
	(!B * Y)	-0.00022	-0.00021	-0.00017
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

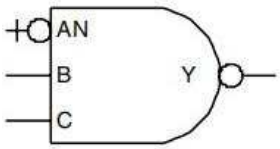
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7L	(AN * B * Y)	0.00021	0.00022	0.00022
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00001	-0.00001
	(AN * B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	0.00021	0.00022	0.00022
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00001	-0.00001
	(!B * Y)	-0.00008	-0.00008	-0.00007

NAND3BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P7H7L	0.00085	0.00073	0.00083	0.03362

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P7H7L	0.00000	1.07803	2.25877

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7L	AN->Y (RR)	0.02933	0.11260	0.31574
	B->Y (FR)	0.01700	0.13417	0.53042
	C->Y (FR)	0.01587	0.13175	0.52870

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7L	AN->Y (FF)	0.04115	0.18416	0.54696
	B->Y (RF)	0.02342	0.16541	0.60752
	C->Y (RF)	0.02176	0.16336	0.61005

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	AN	0.00082	0.00110	0.00208
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00007	0.00007	0.00007
	AN	0.00094	0.00122	0.00220
	B	0.00073	0.00090	0.00179
	B	-0.00005	-0.00005	-0.00005
	B	0.00005	0.00005	0.00005
	B	-0.00005	0.00011	0.00098
	C	0.00059	0.00078	0.00179
	C	-0.00005	-0.00005	-0.00005
	C	0.00001	0.00002	0.00002
	C	-0.00006	0.00011	0.00110

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	AN	0.00089	0.00119	0.00219
	AN	0.00004	0.00004	0.00004
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00078	0.00108	0.00209
	B	-0.00005	0.00005	0.00077
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00074	0.00085	0.00158
	C	-0.00003	0.00011	0.00097
	C	0.00005	0.00005	0.00005
	C	-0.00002	-0.00002	-0.00001
	C	0.00061	0.00078	0.00166

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(B * !C * Y) + (!B * C * Y)	0.00006	0.00033	0.00124
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y) + (!B * C * Y)	0.00075	0.00101	0.00192
	(!B * !C * Y)	0.00005	0.00032	0.00124
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00074	0.00100	0.00192

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(B * !C * Y) + (!B * C * Y)	0.00073	0.00103	0.00203
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	0.00006	0.00036	0.00136
	(!B * !C * Y)	0.00073	0.00103	0.00203
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00005	0.00035	0.00136

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(AN * C * Y)	-0.00015	-0.00014	-0.00014
	(AN * C * Y)	-0.00000	-0.00000	0.00000
	(AN * C * Y)	0.00003	0.00003	0.00003
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00004	0.00004	0.00004
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00018	-0.00017	-0.00017
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(AN * C * Y)	0.00015	0.00015	0.00015
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00014	0.00015	0.00015
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00018	0.00019	0.00020
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(AN * B * Y)	-0.00023	-0.00023	-0.00023
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00001	0.00002	0.00002
	(AN * B * Y)	0.00008	0.00008	0.00009
	(!B * Y)	-0.00023	-0.00023	-0.00023
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

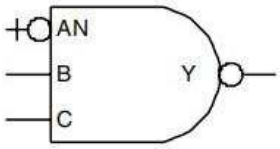
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7L	(AN * B * Y)	0.00023	0.00023	0.00023
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * Y)	-0.00008	-0.00008	-0.00008
	(!B * Y)	0.00023	0.00023	0.00023
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	-0.00008	-0.00008	-0.00007

NAND3BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1H7L	0.00087	0.00079	0.00090	0.03976

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1H7L	0.00000	1.12352	2.38028

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7L	AN->Y (RR)	0.02882	0.11256	0.31662
	B->Y (FR)	0.01604	0.13303	0.52973
	C->Y (FR)	0.01498	0.13072	0.52836

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7L	AN->Y (FF)	0.04053	0.18479	0.54973
	B->Y (RF)	0.02207	0.16461	0.60889
	C->Y (RF)	0.02058	0.16275	0.61328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7L	AN	0.00095	0.00123	0.00223
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00009	0.00009	0.00009
	AN	0.00100	0.00128	0.00227
	B	0.00084	0.00103	0.00205
	B	-0.00006	-0.00006	-0.00006
	B	0.00006	0.00006	0.00006
	B	-0.00005	0.00013	0.00114
	C	0.00070	0.00090	0.00206
	C	-0.00006	-0.00006	-0.00006
	C	0.00001	0.00002	0.00002
	C	-0.00006	0.00014	0.00128

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7L	AN	0.00092	0.00122	0.00222
	AN	0.00005	0.00005	0.00005
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00089	0.00119	0.00220
	B	-0.00006	0.00006	0.00089
	B	0.00006	0.00006	0.00006
	B	-0.00006	-0.00006	-0.00006
	B	0.00084	0.00097	0.00181
	C	-0.00003	0.00012	0.00113
	C	0.00006	0.00006	0.00006
	C	-0.00002	-0.00002	-0.00001
	C	0.00072	0.00088	0.00190

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(B * !C * Y) + (!B * C * Y)	0.00009	0.00035	0.00125
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00079	0.00104	0.00195
	(!B * !C * Y)	0.00008	0.00034	0.00125
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00077	0.00103	0.00194

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(B * !C * Y) + (!B * C * Y)	0.00074	0.00104	0.00203
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	0.00006	0.00036	0.00135
	(!B * !C * Y)	0.00074	0.00104	0.00203
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00006	0.00035	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(AN * C * Y)	-0.00017	-0.00016	-0.00016
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00003	0.00003	0.00003
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00017	-0.00017	-0.00016
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00004	0.00005	0.00005
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00020	-0.00020	-0.00020
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(AN * C * Y)	0.00017	0.00017	0.00017
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00017	0.00017	0.00017
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00005	-0.00005	-0.00004
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00020	0.00021	0.00022
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(AN * B * Y)	-0.00027	-0.00027	-0.00027
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00002	0.00002	0.00002
	(AN * B * Y)	0.00006	0.00007	0.00007
	(!B * Y)	-0.00027	-0.00027	-0.00027
	(!B * Y)	-0.00000	-0.00000	0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

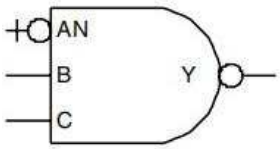
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7L	(AN * B * Y)	0.00027	0.00027	0.00027
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * Y)	-0.00007	-0.00007	-0.00006
	(!B * Y)	0.00027	0.00027	0.00027
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1P4H7L	0.00088	0.00084	0.00096	0.04599

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1P4H7L	0.00000	1.17365	2.51606

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7L	AN->Y (RR)	0.02824	0.11374	0.32236
	B->Y (FR)	0.01499	0.13313	0.53473
	C->Y (FR)	0.01388	0.13070	0.53301

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7L	AN->Y (FF)	0.03939	0.18489	0.55217
	B->Y (RF)	0.02026	0.16316	0.61132
	C->Y (RF)	0.01862	0.16114	0.61579

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	AN	0.00104	0.00131	0.00232
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00010	0.00011	0.00011
	AN	0.00101	0.00129	0.00230
	B	0.00085	0.00110	0.00227
	B	-0.00007	-0.00007	-0.00005
	B	0.00007	0.00007	0.00011
	B	-0.00011	0.00012	0.00127
	C	0.00070	0.00095	0.00229
	C	-0.00007	-0.00007	-0.00005
	C	0.00000	0.00002	0.00003
	C	-0.00009	0.00014	0.00145

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	AN	0.00095	0.00126	0.00225
	AN	0.00006	0.00006	0.00006
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00099	0.00129	0.00230
	B	-0.00006	0.00007	0.00103
	B	0.00007	0.00007	0.00008
	B	-0.00007	-0.00007	-0.00007
	B	0.00091	0.00106	0.00203
	C	-0.00004	0.00014	0.00129
	C	0.00007	0.00007	0.00007
	C	-0.00002	-0.00002	0.00000
	C	0.00071	0.00095	0.00213

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(B * !C * Y) + (!B * C * Y)	0.00011	0.00036	0.00126
	(B * !C * Y) + (!B * C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00081	0.00107	0.00196
	(!B * !C * Y)	0.00010	0.00036	0.00126
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00080	0.00105	0.00195

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(B * !C * Y) + (!B * C * Y)	0.00076	0.00105	0.00204
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	0.00008	0.00037	0.00135
	(!B * !C * Y)	0.00076	0.00105	0.00204
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00007	0.00036	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(AN * C * Y)	-0.00019	-0.00018	-0.00018
	(AN * C * Y)	-0.00000	-0.00000	0.00000
	(AN * C * Y)	0.00004	0.00004	0.00004
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00019	-0.00018	-0.00018
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00022	-0.00021	-0.00021
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(AN * C * Y)	0.00019	0.00019	0.00019
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00004	-0.00004	-0.00003
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00019	0.00019	0.00019
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00022	0.00023	0.00024
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(AN * B * Y)	-0.00030	-0.00030	-0.00029
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00002	0.00002	0.00002
	(AN * B * Y)	0.00007	0.00007	0.00007
	(!B * Y)	-0.00030	-0.00030	-0.00029
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

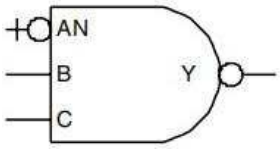
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7L	(AN * B * Y)	0.00029	0.00030	0.00030
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * Y)	-0.00007	-0.00007	-0.00007
	(!B * Y)	0.00030	0.00030	0.00030
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX2H7L	0.00090	0.00104	0.00114	0.05427

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX2H7L	0.00000	1.25965	2.74710

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7L	AN->Y (RR)	0.03028	0.11748	0.32817
	B->Y (FR)	0.01536	0.13392	0.53635
	C->Y (FR)	0.01402	0.13131	0.53508

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7L	AN->Y (FF)	0.04166	0.18642	0.55125
	B->Y (RF)	0.02046	0.16090	0.60376
	C->Y (RF)	0.01859	0.15868	0.60672

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7L	AN	0.00132	0.00160	0.00260
	AN	-0.00008	-0.00007	-0.00007
	AN	0.00013	0.00013	0.00016
	AN	0.00119	0.00147	0.00247
	B	0.00117	0.00141	0.00278
	B	-0.00009	-0.00009	-0.00009
	B	0.00004	0.00009	0.00009
	B	-0.00002	0.00022	0.00156
	C	0.00096	0.00121	0.00277
	C	-0.00009	-0.00009	-0.00008
	C	0.00000	0.00003	0.00003
	C	-0.00004	0.00023	0.00175

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7L	AN	0.00108	0.00138	0.00236
	AN	0.00007	0.00007	0.00008
	AN	-0.00014	-0.00013	-0.00013
	AN	0.00123	0.00153	0.00251
	B	-0.00009	0.00007	0.00118
	B	0.00009	0.00009	0.00009
	B	-0.00009	-0.00009	-0.00004
	B	0.00111	0.00128	0.00240
	C	-0.00004	0.00016	0.00151
	C	0.00009	0.00009	0.00009
	C	-0.00003	-0.00003	0.00000
	C	0.00092	0.00115	0.00252

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(B * !C * Y) + (!B * C * Y)	0.00014	0.00039	0.00126
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00089	0.00114	0.00201
	(!B * !C * Y)	0.00013	0.00038	0.00126
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00003	-0.00002	-0.00002
	(!B * !C * Y)	0.00088	0.00112	0.00200

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(B * !C * Y) + (!B * C * Y)	0.00085	0.00113	0.00209
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	0.00013	0.00040	0.00136
	(!B * !C * Y)	0.00084	0.00113	0.00209
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00003
	(!B * !C * Y)	0.00011	0.00039	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(AN * C * Y)	-0.00025	-0.00024	-0.00024
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00004	0.00004	0.00004
	(AN * C * Y)	0.00012	0.00012	0.00012
	(AN * !C * Y)	-0.00025	-0.00024	-0.00024
	(AN * !C * Y)	-0.00000	-0.00000	0.00000
	(AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00029	-0.00029	-0.00029
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(AN * C * Y)	0.00025	0.00025	0.00025
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * Y)	0.00025	0.00025	0.00025
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00030	0.00031	0.00033
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(AN * B * Y)	-0.00036	-0.00035	-0.00035
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00001	0.00002	0.00003
	(AN * B * Y)	0.00007	0.00007	0.00008
	(!B * Y)	-0.00035	-0.00035	-0.00035
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

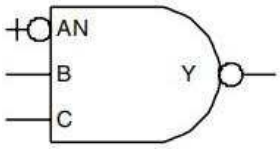
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7L	(AN * B * Y)	0.00035	0.00035	0.00036
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00003	-0.00002	-0.00001
	(AN * B * Y)	-0.00008	-0.00007	-0.00007
	(!B * Y)	0.00035	0.00035	0.00036
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX3H7L	0.00087	0.00164	0.00172	0.08095

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX3H7L	0.00000	1.63028	3.78328

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7L	AN->Y (RR)	0.03400	0.12341	0.33376
	B->Y (FR)	0.01472	0.12994	0.52462
	C->Y (FR)	0.01251	0.12575	0.52106

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7L	AN->Y (FF)	0.04813	0.19751	0.57057
	B->Y (RF)	0.02034	0.15984	0.59991
	C->Y (RF)	0.01608	0.15531	0.60131

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7L	AN	0.00231	0.00259	0.00367
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00016	0.00020	0.00021
	AN	0.00159	0.00187	0.00294
	B	0.00172	0.00222	0.00438
	B	-0.00014	-0.00013	-0.00013
	B	0.00007	0.00013	0.00014
	B	-0.00006	0.00032	0.00244
	C	0.00139	0.00180	0.00432
	C	-0.00014	-0.00013	-0.00013
	C	0.00003	0.00004	0.00006
	C	-0.00013	0.00031	0.00279

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7L	AN	0.00143	0.00172	0.00269
	AN	0.00012	0.00012	0.00012
	AN	-0.00021	-0.00020	-0.00016
	AN	0.00220	0.00249	0.00346
	B	-0.00006	0.00018	0.00197
	B	0.00013	0.00014	0.00014
	B	-0.00014	-0.00013	-0.00007
	B	0.00189	0.00212	0.00393
	C	-0.00007	0.00028	0.00251
	C	0.00013	0.00014	0.00014
	C	-0.00004	-0.00004	-0.00003
	C	0.00141	0.00177	0.00404

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(B * !C * Y) + (!B * C * Y)	0.00028	0.00050	0.00131
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00099	0.00121	0.00202
	(!B * !C * Y)	0.00025	0.00048	0.00130
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * Y)	0.00096	0.00118	0.00200

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(B * !C * Y) + (!B * C * Y)	0.00102	0.00128	0.00218
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00035	0.00061	0.00151
	(!B * !C * Y)	0.00101	0.00127	0.00218
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00003	0.00003
	(!B * !C * Y)	0.00033	0.00059	0.00149

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(AN * C * Y)	-0.00037	-0.00036	-0.00036
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00006	0.00006	0.00006
	(AN * C * Y)	0.00021	0.00021	0.00021
	(AN * !C * Y)	-0.00037	-0.00037	-0.00037
	(AN * !C * Y)	-0.00001	-0.00000	-0.00000
	(AN * !C * Y)	0.00008	0.00008	0.00008
	(AN * !C * Y)	0.00022	0.00022	0.00022
	(!AN * !C * Y)	-0.00035	-0.00034	-0.00033
	(!AN * !C * Y)	-0.00001	-0.00000	-0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(AN * C * Y)	0.00037	0.00037	0.00037
	(AN * C * Y)	0.00000	0.00001	0.00001
	(AN * C * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * Y)	-0.00021	-0.00021	-0.00021
	(AN * !C * Y)	0.00037	0.00038	0.00038
	(AN * !C * Y)	0.00000	0.00001	0.00001
	(AN * !C * Y)	-0.00008	-0.00008	-0.00008
	(AN * !C * Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * Y)	0.00036	0.00038	0.00041
	(!AN * !C * Y)	0.00000	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(AN * B * Y)	-0.00052	-0.00052	-0.00052
	(AN * B * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * Y)	0.00002	0.00003	0.00004
	(AN * B * Y)	0.00014	0.00015	0.00016
	(!B * Y)	-0.00053	-0.00052	-0.00052
	(!B * Y)	-0.00001	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00003	0.00004
	(!B * Y)	0.00013	0.00014	0.00015

Passive power(pJ) for C falling (conditional):

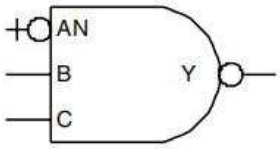
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7L	(AN * B * Y)	0.00052	0.00052	0.00052
	(AN * B * Y)	0.00000	0.00001	0.00001
	(AN * B * Y)	-0.00004	-0.00003	-0.00002
	(AN * B * Y)	-0.00015	-0.00014	-0.00013
	(!B * Y)	0.00052	0.00053	0.00053
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00004	-0.00003	-0.00002
	(!B * Y)	-0.00014	-0.00014	-0.00013

NAND3BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX4H7L	0.00104	0.00203	0.00214	0.10379

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX4H7L	0.00000	2.06243	4.75016

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7L	AN->Y (RR)	0.02941	0.11543	0.31876
	B->Y (FR)	0.01421	0.12921	0.52341
	C->Y (FR)	0.01211	0.12527	0.52132

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7L	AN->Y (FF)	0.04225	0.18885	0.55500
	B->Y (RF)	0.01939	0.15749	0.59539
	C->Y (RF)	0.01559	0.15347	0.59827

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7L	AN	0.00291	0.00330	0.00478
	AN	-0.00016	-0.00016	-0.00015
	AN	0.00026	0.00026	0.00026
	AN	0.00196	0.00235	0.00383
	B	0.00217	0.00280	0.00554
	B	-0.00018	-0.00018	-0.00018
	B	0.00017	0.00017	0.00027
	B	-0.00015	0.00041	0.00310
	C	0.00177	0.00229	0.00548
	C	-0.00018	-0.00018	-0.00017
	C	0.00004	0.00005	0.00006
	C	-0.00017	0.00039	0.00353

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7L	AN	0.00177	0.00219	0.00357
	AN	0.00015	0.00016	0.00016
	AN	-0.00026	-0.00026	-0.00026
	AN	0.00277	0.00320	0.00460
	B	-0.00009	0.00023	0.00250
	B	0.00018	0.00018	0.00018
	B	-0.00018	-0.00017	-0.00017
	B	0.00230	0.00266	0.00496
	C	-0.00007	0.00036	0.00317
	C	0.00017	0.00018	0.00018
	C	-0.00006	-0.00005	-0.00004
	C	0.00179	0.00226	0.00512

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(B * !C * Y) + (!B * C * Y)	0.00037	0.00070	0.00188
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00125	0.00158	0.00275
	(!B * !C * Y)	0.00034	0.00067	0.00187
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * Y)	0.00121	0.00154	0.00273

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(B * !C * Y) + (!B * C * Y)	0.00122	0.00161	0.00293
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y) + (!B * C * Y)	0.00039	0.00077	0.00209
	(!B * !C * Y)	0.00121	0.00160	0.00292
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00004	0.00005	0.00005
	(!B * !C * Y)	0.00037	0.00075	0.00207

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(AN * C * Y)	-0.00049	-0.00049	-0.00048
	(AN * C * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * Y)	0.00008	0.00008	0.00008
	(AN * C * Y)	0.00021	0.00021	0.00022
	(AN * !C * Y)	-0.00049	-0.00049	-0.00048
	(AN * !C * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	0.00022	0.00022	0.00022
	(!AN * !C * Y)	-0.00049	-0.00048	-0.00048
	(!AN * !C * Y)	-0.00001	-0.00000	0.00001
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00056	0.00056	0.00057

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(AN * C * Y)	0.00049	0.00049	0.00050
	(AN * C * Y)	0.00000	0.00001	0.00001
	(AN * C * Y)	-0.00008	-0.00008	-0.00008
	(AN * C * Y)	-0.00021	-0.00021	-0.00021
	(AN * !C * Y)	0.00049	0.00050	0.00050
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * Y)	0.00050	0.00052	0.00056
	(!AN * !C * Y)	0.00000	0.00001	0.00003
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00052	-0.00049	-0.00044

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(AN * B * Y)	-0.00067	-0.00067	-0.00066
	(AN * B * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * Y)	0.00004	0.00005	0.00005
	(AN * B * Y)	0.00014	0.00015	0.00016
	(!B * Y)	-0.00067	-0.00067	-0.00067
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00005	0.00005	0.00006
	(!B * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

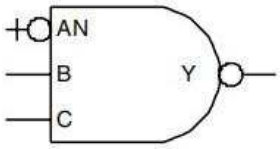
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7L	(AN * B * Y)	0.00066	0.00067	0.00067
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00005	-0.00004	-0.00003
	(AN * B * Y)	-0.00016	-0.00015	-0.00014
	(!B * Y)	0.00067	0.00067	0.00067
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00005	-0.00005	-0.00005
	(!B * Y)	-0.00014	-0.00013	-0.00013

NAND3BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX6H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX6H7L	0.00118	0.00299	0.00312	0.15830

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX6H7L	0.00000	2.79282	6.61558

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7L	AN->Y (RR)	0.03091	0.12085	0.33161
	B->Y (FR)	0.01343	0.12946	0.52801
	C->Y (FR)	0.01154	0.12582	0.52658

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7L	AN->Y (FF)	0.04374	0.19471	0.57052
	B->Y (RF)	0.01807	0.15776	0.59996
	C->Y (RF)	0.01478	0.15453	0.60432

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7L	AN	0.00427	0.00471	0.00656
	AN	-0.00024	-0.00024	-0.00022
	AN	0.00040	0.00040	0.00050
	AN	0.00256	0.00307	0.00491
	B	0.00316	0.00408	0.00826
	B	-0.00027	-0.00027	-0.00026
	B	0.00025	0.00026	0.00026
	B	-0.00021	0.00054	0.00464
	C	0.00261	0.00340	0.00824
	C	-0.00027	-0.00027	-0.00026
	C	0.00005	0.00008	0.00012
	C	-0.00029	0.00060	0.00537

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7L	AN	0.00242	0.00293	0.00461
	AN	0.00024	0.00024	0.00025
	AN	-0.00043	-0.00040	-0.00040
	AN	0.00415	0.00467	0.00635
	B	-0.00014	0.00035	0.00388
	B	0.00026	0.00027	0.00027
	B	-0.00026	-0.00026	-0.00025
	B	0.00350	0.00397	0.00753
	C	-0.00011	0.00055	0.00484
	C	0.00026	0.00027	0.00027
	C	-0.00009	-0.00008	-0.00005
	C	0.00245	0.00335	0.00772

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(B * !C * Y) + (!B * C * Y)	0.00060	0.00095	0.00226
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00005	-0.00005
	(B * !C * Y) + (!B * C * Y)	0.00164	0.00200	0.00330
	(!B * !C * Y)	0.00055	0.00092	0.00225
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	-0.00007	-0.00006	-0.00006
	(!B * !C * Y)	0.00158	0.00194	0.00326

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(B * !C * Y) + (!B * C * Y)	0.00163	0.00205	0.00353
	(B * !C * Y) + (!B * C * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00005	0.00005	0.00005
	(B * !C * Y) + (!B * C * Y)	0.00065	0.00108	0.00256
	(!B * !C * Y)	0.00161	0.00204	0.00352
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	0.00006	0.00006	0.00007
	(!B * !C * Y)	0.00062	0.00104	0.00253

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(AN * C * Y)	-0.00072	-0.00072	-0.00071
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00013	0.00013	0.00013
	(AN * C * Y)	0.00031	0.00031	0.00032
	(AN * !C * Y)	-0.00072	-0.00072	-0.00071
	(AN * !C * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * Y)	0.00017	0.00017	0.00017
	(AN * !C * Y)	0.00032	0.00032	0.00032
	(!AN * !C * Y)	-0.00073	-0.00072	-0.00071
	(!AN * !C * Y)	-0.00001	-0.00001	0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00084	0.00085	0.00085

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(AN * C * Y)	0.00072	0.00073	0.00073
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * Y)	-0.00031	-0.00030	-0.00030
	(AN * !C * Y)	0.00072	0.00073	0.00074
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00017	-0.00017	-0.00017
	(AN * !C * Y)	-0.00032	-0.00032	-0.00032
	(!AN * !C * Y)	0.00074	0.00078	0.00084
	(!AN * !C * Y)	0.00000	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00078	-0.00075	-0.00067

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(AN * B * Y)	-0.00099	-0.00098	-0.00096
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00007	0.00008	0.00011
	(AN * B * Y)	0.00017	0.00020	0.00021
	(!B * Y)	-0.00099	-0.00098	-0.00098
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00006	0.00008	0.00008
	(!B * Y)	0.00018	0.00018	0.00020

Passive power(pJ) for C falling (conditional):

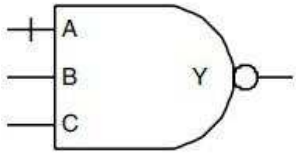
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7L	(AN * B * Y)	0.00098	0.00098	0.00099
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00008	-0.00007	-0.00004
	(AN * B * Y)	-0.00021	-0.00020	-0.00017
	(!B * Y)	0.00098	0.00099	0.00099
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00008	-0.00007	-0.00006
	(!B * Y)	-0.00019	-0.00018	-0.00017

NAND3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P5H7L	0.00065	0.00071	0.00078	0.02822

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P5H7L	0.00000	0.39409	1.09530

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7L	A->Y (FR)	0.01966	0.13456	0.51751
	B->Y (FR)	0.01892	0.13239	0.51606
	C->Y (FR)	0.01762	0.12980	0.51418

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7L	A->Y (RF)	0.02701	0.15731	0.54927
	B->Y (RF)	0.02679	0.16427	0.59198
	C->Y (RF)	0.02474	0.16190	0.59509

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	A	0.00083	0.00100	0.00180
	A	-0.00005	-0.00005	-0.00005
	A	0.00008	0.00008	0.00008
	A	-0.00007	0.00007	0.00086
	B	0.00076	0.00091	0.00169
	B	-0.00005	-0.00005	-0.00004
	B	0.00005	0.00005	0.00006
	B	-0.00002	0.00013	0.00090
	C	0.00065	0.00082	0.00170
	C	-0.00005	-0.00005	-0.00004
	C	0.00000	0.00002	0.00011
	C	-0.00010	0.00012	0.00098

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	A	-0.00007	0.00002	0.00064
	A	0.00005	0.00005	0.00005
	A	-0.00008	-0.00008	-0.00008
	A	0.00088	0.00096	0.00159
	B	-0.00008	0.00002	0.00064
	B	0.00004	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00070	0.00080	0.00143
	C	-0.00008	0.00005	0.00080
	C	0.00005	0.00005	0.00005
	C	-0.00002	-0.00001	0.00000
	C	0.00063	0.00075	0.00152

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(B * !C * Y)	-0.00012	-0.00012	-0.00012
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00022	0.00022	0.00023
	(!B * C * Y)	-0.00012	-0.00012	-0.00012
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00022	0.00023	0.00023
	(!B * !C * Y)	-0.00012	-0.00012	-0.00012
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00000	0.00001	0.00001
	(!B * !C * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(B * !C * Y)	0.00012	0.00013	0.00013
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00022	-0.00021	-0.00020
	(!B * C * Y)	0.00012	0.00012	0.00012
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * Y)	0.00012	0.00012	0.00012
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(A * !C * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00017	0.00017	0.00017
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00003	0.00003	0.00003
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(A * !C * Y)	0.00015	0.00016	0.00017
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00015	-0.00015	-0.00014
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00015	0.00015	0.00015
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(!B * Y)	-0.00021	-0.00021	-0.00021
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00008	0.00008	0.00008
	(!A * B * Y)	-0.00021	-0.00021	-0.00021
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

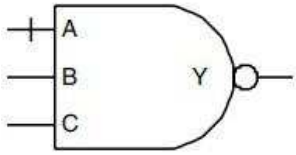
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7L	(!B * Y)	0.00021	0.00021	0.00021
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * Y)	0.00021	0.00021	0.00021
	(!A * B * Y)	0.00000	0.00000	0.00000
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00008	-0.00008	-0.00007

NAND3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P7H7L	0.00069	0.00074	0.00082	0.03267

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P7H7L	0.00000	0.42154	1.16791

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7L	A->Y (FR)	0.01833	0.13483	0.52439
	B->Y (FR)	0.01753	0.13254	0.52254
	C->Y (FR)	0.01624	0.12999	0.52098

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7L	A->Y (RF)	0.02473	0.15624	0.55309
	B->Y (RF)	0.02435	0.16295	0.59557
	C->Y (RF)	0.02231	0.16058	0.59845

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	A	0.00088	0.00106	0.00196
	A	-0.00005	-0.00005	-0.00005
	A	0.00009	0.00009	0.00009
	A	-0.00009	0.00007	0.00096
	B	0.00078	0.00096	0.00184
	B	-0.00005	-0.00005	-0.00005
	B	0.00005	0.00005	0.00005
	B	-0.00002	0.00014	0.00100
	C	0.00070	0.00086	0.00186
	C	-0.00005	-0.00005	-0.00005
	C	0.00000	0.00002	0.00009
	C	-0.00008	0.00012	0.00110

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	A	-0.00008	0.00002	0.00072
	A	0.00005	0.00005	0.00005
	A	-0.00009	-0.00009	-0.00009
	A	0.00093	0.00103	0.00175
	B	-0.00008	0.00002	0.00072
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00074	0.00085	0.00157
	C	-0.00009	0.00005	0.00091
	C	0.00005	0.00005	0.00005
	C	-0.00002	-0.00002	0.00000
	C	0.00064	0.00079	0.00166

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(B * !C * Y)	-0.00013	-0.00013	-0.00013
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00023	0.00023	0.00024
	(!B * C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00024	0.00024	0.00024
	(!B * !C * Y)	-0.00013	-0.00013	-0.00013
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(B * !C * Y)	0.00013	0.00014	0.00014
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00022	-0.00022	-0.00020
	(!B * C * Y)	0.00013	0.00013	0.00014
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * Y)	0.00013	0.00013	0.00013
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(A * !C * Y)	-0.00016	-0.00016	-0.00016
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00017	0.00017	0.00018
	(!A * C * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00004	0.00004	0.00004
	(!A * !C * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(A * !C * Y)	0.00016	0.00017	0.00018
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00016	-0.00016	-0.00014
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	0.00016	0.00016	0.00016
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(!B * Y)	-0.00023	-0.00023	-0.00023
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00023	-0.00023	-0.00023
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

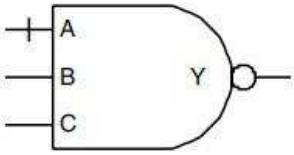
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7L	(!B * Y)	0.00023	0.00023	0.00023
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00023	0.00023	0.00023
	(!A * B * Y)	0.00000	0.00000	0.00000
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1H7L	0.00074	0.00078	0.00091	0.03877

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1H7L	0.00000	0.46703	1.28942

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7L	A->Y (FR)	0.01673	0.13313	0.52451
	B->Y (FR)	0.01581	0.13071	0.52308
	C->Y (FR)	0.01467	0.12828	0.52158

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7L	A->Y (RF)	0.02248	0.15479	0.55537
	B->Y (RF)	0.02178	0.16117	0.59827
	C->Y (RF)	0.02004	0.15906	0.60182

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7L	A	0.00095	0.00117	0.00222
	A	-0.00006	-0.00006	-0.00006
	A	0.00010	0.00010	0.00010
	A	-0.00012	0.00006	0.00110
	B	0.00082	0.00104	0.00207
	B	-0.00006	-0.00006	-0.00006
	B	0.00006	0.00006	0.00008
	B	-0.00007	0.00013	0.00113
	C	0.00075	0.00094	0.00210
	C	-0.00006	-0.00006	-0.00006
	C	0.00000	0.00002	0.00002
	C	-0.00007	0.00013	0.00127

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7L	A	-0.00009	0.00002	0.00085
	A	0.00006	0.00006	0.00006
	A	-0.00010	-0.00010	-0.00010
	A	0.00103	0.00115	0.00198
	B	-0.00010	0.00002	0.00086
	B	0.00006	0.00006	0.00007
	B	-0.00006	-0.00006	-0.00006
	B	0.00084	0.00095	0.00180
	C	-0.00010	0.00006	0.00106
	C	0.00006	0.00006	0.00007
	C	-0.00002	-0.00002	0.00000
	C	0.00071	0.00087	0.00189

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(B * !C * Y)	-0.00015	-0.00015	-0.00015
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	-0.00015	-0.00015	-0.00015
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00025	0.00025	0.00025
	(!B * !C * Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(B * !C * Y)	0.00015	0.00015	0.00016
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00024	-0.00023	-0.00021
	(!B * C * Y)	0.00015	0.00015	0.00016
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00024	-0.00024	-0.00023
	(!B * !C * Y)	0.00015	0.00015	0.00015
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(A * !C * Y)	-0.00017	-0.00017	-0.00016
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00021	0.00021	0.00021
	(!A * C * Y)	-0.00017	-0.00017	-0.00017
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00017	-0.00017	-0.00017
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00004	0.00005	0.00005
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(A * !C * Y)	0.00017	0.00018	0.00019
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00019	-0.00019	-0.00017
	(!A * C * Y)	0.00017	0.00017	0.00017
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00017	0.00017	0.00017
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00005	-0.00005	-0.00004
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(!B * Y)	-0.00027	-0.00026	-0.00026
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00027	-0.00026	-0.00026
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

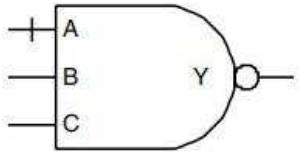
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7L	(!B * Y)	0.00026	0.00026	0.00027
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00026	0.00026	0.00027
	(!A * B * Y)	0.00000	0.00000	0.00000
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1P4H7L	0.00083	0.00087	0.00097	0.04481

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1P4H7L	0.00000	0.51716	1.42520

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7L	A->Y (FR)	0.01585	0.13340	0.52885
	B->Y (FR)	0.01496	0.13097	0.52711
	C->Y (FR)	0.01367	0.12831	0.52527

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7L	A->Y (RF)	0.02094	0.15364	0.55773
	B->Y (RF)	0.02031	0.15996	0.60043
	C->Y (RF)	0.01825	0.15756	0.60298

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	A	0.00102	0.00128	0.00247
	A	-0.00007	-0.00007	-0.00007
	A	0.00012	0.00012	0.00012
	A	-0.00015	0.00006	0.00123
	B	0.00091	0.00114	0.00231
	B	-0.00007	-0.00007	-0.00007
	B	0.00007	0.00007	0.00007
	B	-0.00008	0.00012	0.00127
	C	0.00076	0.00101	0.00234
	C	-0.00007	-0.00007	-0.00006
	C	0.00000	0.00002	0.00009
	C	-0.00012	0.00012	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	A	-0.00011	0.00002	0.00097
	A	0.00007	0.00007	0.00007
	A	-0.00012	-0.00012	-0.00012
	A	0.00115	0.00127	0.00223
	B	-0.00011	0.00002	0.00098
	B	0.00007	0.00007	0.00008
	B	-0.00007	-0.00007	-0.00007
	B	0.00091	0.00105	0.00202
	C	-0.00011	0.00006	0.00123
	C	0.00007	0.00007	0.00007
	C	-0.00002	-0.00002	0.00000
	C	0.00076	0.00095	0.00213

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(B * !C * Y)	-0.00017	-0.00017	-0.00017
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00017	-0.00017	-0.00017
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00027	0.00027
	(!B * !C * Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(B * !C * Y)	0.00017	0.00018	0.00018
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00025	-0.00024	-0.00022
	(!B * C * Y)	0.00017	0.00018	0.00019
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00025	-0.00025	-0.00024
	(!B * !C * Y)	0.00017	0.00017	0.00017
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(A * !C * Y)	-0.00020	-0.00019	-0.00019
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00021	0.00021	0.00021
	(!A * C * Y)	-0.00020	-0.00020	-0.00019
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00003	0.00003	0.00004
	(!A * C * Y)	0.00005	0.00006	0.00006
	(!A * !C * Y)	-0.00020	-0.00020	-0.00019
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(A * !C * Y)	0.00020	0.00021	0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00020	-0.00019	-0.00017
	(!A * C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	-0.00005	-0.00006	-0.00005
	(!A * !C * Y)	0.00020	0.00020	0.00020
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(!B * Y)	-0.00029	-0.00028	-0.00028
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00003	0.00002
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00029	-0.00028	-0.00028
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

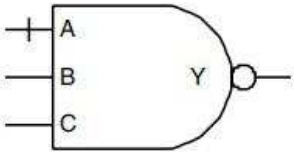
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7L	(!B * Y)	0.00028	0.00028	0.00029
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00028	0.00028	0.00029
	(!A * B * Y)	0.00000	0.00000	0.00000
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00006

NAND3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X2H7L	0.00142	0.00137	0.00145	0.05610

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X2H7L	0.00000	0.78818	2.19060

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7L	A->Y (FR)	0.01846	0.13389	0.51850
	B->Y (FR)	0.01697	0.13018	0.51550
	C->Y (FR)	0.01440	0.12546	0.51156

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7L	A->Y (RF)	0.02610	0.15735	0.55380
	B->Y (RF)	0.02410	0.16170	0.59206
	C->Y (RF)	0.01916	0.15675	0.59554

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7L	A	0.00191	0.00224	0.00384
	A	-0.00009	-0.00009	-0.00009
	A	0.00015	0.00015	0.00015
	A	-0.00010	0.00018	0.00176
	B	0.00161	0.00191	0.00350
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00009	0.00009
	B	-0.00007	0.00022	0.00178
	C	0.00125	0.00156	0.00341
	C	-0.00009	-0.00009	-0.00008
	C	0.00000	0.00003	0.00005
	C	-0.00017	0.00016	0.00198

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7L	A	-0.00016	0.00001	0.00124
	A	0.00009	0.00009	0.00009
	A	-0.00015	-0.00015	-0.00015
	A	0.00196	0.00213	0.00337
	B	-0.00015	0.00003	0.00133
	B	0.00009	0.00009	0.00009
	B	-0.00009	-0.00009	-0.00007
	B	0.00157	0.00175	0.00306
	C	-0.00016	0.00010	0.00174
	C	0.00009	0.00009	0.00009
	C	-0.00003	-0.00003	0.00000
	C	0.00124	0.00151	0.00317

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(B * !C * Y)	-0.00027	-0.00026	-0.00026
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00045	0.00045	0.00046
	(!B * C * Y)	-0.00027	-0.00026	-0.00026
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00046	0.00046	0.00046
	(!B * !C * Y)	-0.00027	-0.00027	-0.00026
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(B * !C * Y)	0.00027	0.00028	0.00030
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00043	-0.00040	-0.00036
	(!B * C * Y)	0.00027	0.00028	0.00030
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00044	-0.00042	-0.00039
	(!B * !C * Y)	0.00027	0.00027	0.00027
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00044	-0.00042	-0.00040

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(A * !C * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	0.00044	0.00044	0.00044
	(!A * C * Y)	-0.00029	-0.00029	-0.00029
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00004	0.00004	0.00004
	(!A * C * Y)	0.00015	0.00016	0.00016
	(!A * !C * Y)	-0.00029	-0.00029	-0.00029
	(!A * !C * Y)	-0.00001	-0.00000	-0.00000
	(!A * !C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(A * !C * Y)	0.00028	0.00030	0.00033
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	-0.00042	-0.00039	-0.00034
	(!A * C * Y)	0.00029	0.00029	0.00029
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	-0.00016	-0.00015	-0.00015
	(!A * !C * Y)	0.00030	0.00030	0.00030
	(!A * !C * Y)	0.00000	0.00000	0.00001
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(!B * Y)	-0.00043	-0.00042	-0.00042
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00018	0.00018	0.00018
	(!A * B * Y)	-0.00042	-0.00042	-0.00041
	(!A * B * Y)	-0.00000	-0.00000	0.00000
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for C falling (conditional):

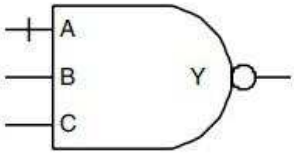
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7L	(!B * Y)	0.00042	0.00043	0.00043
	(!B * Y)	0.00000	0.00000	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * Y)	0.00041	0.00042	0.00042
	(!A * B * Y)	0.00000	0.00000	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00002
	(!A * B * Y)	-0.00017	-0.00016	-0.00016

NAND3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X3H7L	0.00165	0.00166	0.00172	0.08010

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X3H7L	0.00000	0.97378	2.69242

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7L	A->Y (FR)	0.01579	0.13214	0.52351
	B->Y (FR)	0.01460	0.12885	0.52050
	C->Y (FR)	0.01251	0.12489	0.51840

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7L	A->Y (RF)	0.02074	0.15221	0.55134
	B->Y (RF)	0.01999	0.15716	0.59108
	C->Y (RF)	0.01612	0.15353	0.59650

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7L	A	0.00229	0.00270	0.00489
	A	-0.00014	-0.00014	-0.00013
	A	0.00022	0.00022	0.00022
	A	-0.00017	0.00020	0.00236
	B	0.00190	0.00232	0.00449
	B	-0.00013	-0.00013	-0.00013
	B	0.00011	0.00013	0.00019
	B	-0.00018	0.00025	0.00238
	C	0.00152	0.00194	0.00445
	C	-0.00014	-0.00013	-0.00012
	C	0.00000	0.00004	0.00007
	C	-0.00022	0.00025	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7L	A	-0.00021	0.00002	0.00176
	A	0.00013	0.00014	0.00014
	A	-0.00022	-0.00022	-0.00022
	A	0.00237	0.00259	0.00435
	B	-0.00021	0.00004	0.00185
	B	0.00013	0.00014	0.00014
	B	-0.00014	-0.00013	-0.00011
	B	0.00191	0.00215	0.00398
	C	-0.00022	0.00013	0.00237
	C	0.00013	0.00013	0.00014
	C	-0.00004	-0.00004	0.00000
	C	0.00147	0.00182	0.00409

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(B * !C * Y)	-0.00034	-0.00034	-0.00034
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00050	0.00050	0.00050
	(!B * C * Y)	-0.00034	-0.00034	-0.00034
	(!B * C * Y)	-0.00000	-0.00001	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00050	0.00051	0.00051
	(!B * !C * Y)	-0.00035	-0.00034	-0.00034
	(!B * !C * Y)	-0.00000	-0.00000	0.00000
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(B * !C * Y)	0.00035	0.00036	0.00038
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00047	-0.00044	-0.00039
	(!B * C * Y)	0.00035	0.00036	0.00038
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00048	-0.00046	-0.00043
	(!B * !C * Y)	0.00034	0.00034	0.00035
	(!B * !C * Y)	0.00000	0.00000	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	-0.00048	-0.00046	-0.00043

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(A * !C * Y)	-0.00036	-0.00036	-0.00035
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00051	0.00051	0.00051
	(!A * C * Y)	-0.00039	-0.00038	-0.00038
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * !C * Y)	-0.00039	-0.00039	-0.00039
	(!A * !C * Y)	-0.00000	-0.00000	0.00000
	(!A * !C * Y)	0.00008	0.00008	0.00008
	(!A * !C * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(A * !C * Y)	0.00037	0.00039	0.00042
	(A * !C * Y)	0.00000	0.00000	0.00001
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00048	-0.00046	-0.00041
	(!A * C * Y)	0.00039	0.00039	0.00039
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * Y)	0.00039	0.00040	0.00040
	(!A * !C * Y)	0.00000	0.00001	0.00001
	(!A * !C * Y)	-0.00008	-0.00008	-0.00008
	(!A * !C * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(!B * Y)	-0.00053	-0.00053	-0.00052
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00003	0.00003	0.00004
	(!B * Y)	0.00017	0.00017	0.00017
	(!A * B * Y)	-0.00053	-0.00053	-0.00053
	(!A * B * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * Y)	0.00004	0.00004	0.00004
	(!A * B * Y)	0.00015	0.00015	0.00016

Passive power(pJ) for C falling (conditional):

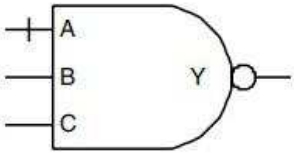
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7L	(!B * Y)	0.00053	0.00053	0.00053
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	-0.00017	-0.00016	-0.00016
	(!A * B * Y)	0.00053	0.00053	0.00053
	(!A * B * Y)	0.00000	0.00001	0.00001
	(!A * B * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * Y)	-0.00016	-0.00015	-0.00015

NAND3X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X4H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X4H7L	0.00262	0.00264	0.00294	0.11139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X4H7L	0.00000	1.57636	4.38119

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7L	A->Y (FR)	0.01720	0.13187	0.51596
	B->Y (FR)	0.01590	0.12842	0.51374
	C->Y (FR)	0.01388	0.12439	0.51059

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7L	A->Y (RF)	0.02412	0.15516	0.55151
	B->Y (RF)	0.02249	0.16011	0.59155
	C->Y (RF)	0.01854	0.15634	0.59672

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7L	A	0.00376	0.00446	0.00774
	A	-0.00018	-0.00018	-0.00018
	A	0.00030	0.00030	0.00030
	A	-0.00009	0.00048	0.00371
	B	0.00330	0.00387	0.00710
	B	-0.00018	-0.00018	-0.00018
	B	0.00018	0.00018	0.00019
	B	-0.00003	0.00055	0.00373
	C	0.00269	0.00332	0.00705
	C	-0.00018	-0.00018	-0.00016
	C	0.00002	0.00005	0.00010
	C	-0.00011	0.00057	0.00424

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7L	A	-0.00031	0.00004	0.00263
	A	0.00018	0.00018	0.00019
	A	-0.00030	-0.00030	-0.00030
	A	0.00381	0.00414	0.00676
	B	-0.00030	0.00008	0.00277
	B	0.00018	0.00018	0.00018
	B	-0.00019	-0.00018	-0.00018
	B	0.00302	0.00345	0.00618
	C	-0.00033	0.00020	0.00352
	C	0.00018	0.00018	0.00018
	C	-0.00006	-0.00005	-0.00002
	C	0.00245	0.00297	0.00633

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(B * !C * Y)	-0.00051	-0.00051	-0.00051
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00083	0.00084	0.00084
	(!B * C * Y)	-0.00051	-0.00051	-0.00050
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00084	0.00085	0.00085
	(!B * !C * Y)	-0.00052	-0.00051	-0.00051
	(!B * !C * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00079	0.00080	0.00081

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(B * !C * Y)	0.00052	0.00055	0.00059
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00079	-0.00074	-0.00066
	(!B * C * Y)	0.00052	0.00053	0.00057
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00080	-0.00076	-0.00072
	(!B * !C * Y)	0.00051	0.00052	0.00052
	(!B * !C * Y)	0.00000	0.00001	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	-0.00080	-0.00077	-0.00073

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(A * !C * Y)	-0.00052	-0.00051	-0.00051
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00085	0.00085	0.00086
	(!A * C * Y)	-0.00057	-0.00056	-0.00055
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00026	0.00027	0.00027
	(!A * !C * Y)	-0.00057	-0.00057	-0.00056
	(!A * !C * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * Y)	0.00012	0.00012	0.00012
	(!A * !C * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(A * !C * Y)	0.00053	0.00058	0.00066
	(A * !C * Y)	0.00001	0.00001	0.00002
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00080	-0.00076	-0.00069
	(!A * C * Y)	0.00057	0.00057	0.00057
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	-0.00009	-0.00009	-0.00008
	(!A * C * Y)	-0.00027	-0.00026	-0.00026
	(!A * !C * Y)	0.00057	0.00058	0.00059
	(!A * !C * Y)	0.00000	0.00001	0.00001
	(!A * !C * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * Y)	-0.00028	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(!B * Y)	-0.00090	-0.00089	-0.00088
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00005	0.00005	0.00005
	(!B * Y)	0.00026	0.00027	0.00027
	(!A * B * Y)	-0.00089	-0.00088	-0.00087
	(!A * B * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * Y)	0.00005	0.00005	0.00005
	(!A * B * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for C falling (conditional):

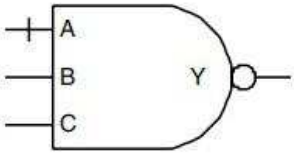
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7L	(!B * Y)	0.00089	0.00089	0.00090
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00005	-0.00005	-0.00005
	(!B * Y)	-0.00026	-0.00026	-0.00026
	(!A * B * Y)	0.00088	0.00089	0.00089
	(!A * B * Y)	0.00000	0.00001	0.00002
	(!A * B * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * Y)	-0.00024	-0.00024	-0.00024

NAND3X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X6H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X6H7L	0.00286	0.00288	0.00298	0.15637

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X6H7L	0.00000	1.80946	4.96869

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7L	A->Y (FR)	0.01373	0.13058	0.52616
	B->Y (FR)	0.01257	0.12732	0.52356
	C->Y (FR)	0.01069	0.12351	0.52152

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7L	A->Y (RF)	0.01147	0.14886	0.55067
	B->Y (RF)	0.01677	0.15430	0.59307
	C->Y (RF)	0.01248	0.15102	0.59838

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7L	A	0.00381	0.00471	0.00899
	A	-0.00027	-0.00027	-0.00027
	A	0.00042	0.00043	0.00043
	A	-0.00045	0.00029	0.00451
	B	0.00313	0.00401	0.00825
	B	-0.00027	-0.00027	-0.00023
	B	0.00022	0.00026	0.00033
	B	-0.00044	0.00037	0.00453
	C	0.00252	0.00334	0.00829
	C	-0.00027	-0.00026	-0.00025
	C	0.00003	0.00008	0.00019
	C	-0.00044	0.00043	0.00530

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7L	A	-0.00041	0.00005	0.00358
	A	0.00027	0.00027	0.00027
	A	-0.00043	-0.00043	-0.00042
	A	0.00416	0.00460	0.00815
	B	-0.00041	0.00009	0.00374
	B	0.00027	0.00027	0.00027
	B	-0.00027	-0.00026	-0.00022
	B	0.00327	0.00379	0.00749
	C	-0.00041	0.00026	0.00468
	C	0.00026	0.00027	0.00027
	C	-0.00009	-0.00008	-0.00003
	C	0.00241	0.00318	0.00767

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(B * !C * Y)	-0.00064	-0.00064	-0.00063
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y)	0.00085	0.00085	0.00086
	(!B * C * Y)	-0.00064	-0.00063	-0.00063
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00001	0.00001	0.00002
	(!B * C * Y)	0.00086	0.00086	0.00087
	(!B * !C * Y)	-0.00064	-0.00063	-0.00060
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	0.00081	0.00082	0.00082

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(B * !C * Y)	0.00065	0.00067	0.00071
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y)	-0.00079	-0.00074	-0.00066
	(!B * C * Y)	0.00064	0.00066	0.00069
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00001	-0.00001
	(!B * C * Y)	-0.00081	-0.00077	-0.00071
	(!B * !C * Y)	0.00063	0.00064	0.00064
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	-0.00081	-0.00077	-0.00073

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(A * !C * Y)	-0.00065	-0.00064	-0.00064
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00085	0.00086	0.00086
	(!A * C * Y)	-0.00066	-0.00066	-0.00066
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00013	0.00013	0.00013
	(!A * C * Y)	0.00018	0.00019	0.00019
	(!A * !C * Y)	-0.00067	-0.00067	-0.00066
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00018	0.00018	0.00018
	(!A * !C * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(A * !C * Y)	0.00066	0.00070	0.00075
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00080	-0.00076	-0.00067
	(!A * C * Y)	0.00067	0.00068	0.00068
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00013	-0.00013	-0.00012
	(!A * C * Y)	-0.00019	-0.00018	-0.00018
	(!A * !C * Y)	0.00068	0.00068	0.00069
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(!B * Y)	-0.00093	-0.00093	-0.00092
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00008	0.00008	0.00008
	(!B * Y)	0.00019	0.00019	0.00020
	(!A * B * Y)	-0.00093	-0.00093	-0.00092
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00008	0.00008	0.00008
	(!A * B * Y)	0.00017	0.00018	0.00019

Passive power(pJ) for C falling (conditional):

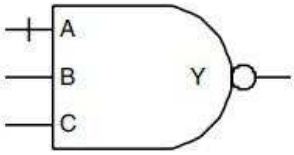
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7L	(!B * Y)	0.00093	0.00093	0.00094
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * Y)	0.00093	0.00093	0.00094
	(!A * B * Y)	0.00001	0.00001	0.00002
	(!A * B * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * Y)	-0.00018	-0.00017	-0.00017

NAND3X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X8H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X8H7L	0.00382	0.00380	0.00391	0.21129

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X8H7L	0.00000	2.41261	6.62491

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7L	A->Y (FR)	0.01364	0.13178	0.53122
	B->Y (FR)	0.01246	0.12842	0.52817
	C->Y (FR)	0.01055	0.12444	0.52560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7L	A->Y (RF)	0.01067	0.15079	0.55721
	B->Y (RF)	0.01630	0.15613	0.59965
	C->Y (RF)	0.01173	0.15282	0.60567

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7L	A	0.00538	0.00639	0.01208
	A	-0.00036	-0.00036	-0.00033
	A	0.00057	0.00057	0.00057
	A	-0.00056	0.00045	0.00607
	B	0.00439	0.00543	0.01109
	B	-0.00036	-0.00036	-0.00034
	B	0.00019	0.00034	0.00044
	B	-0.00055	0.00053	0.00608
	C	0.00342	0.00450	0.01110
	C	-0.00036	-0.00036	-0.00034
	C	0.00000	0.00011	0.00021
	C	-0.00059	0.00060	0.00710

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7L	A	-0.00056	0.00006	0.00476
	A	0.00035	0.00036	0.00036
	A	-0.00057	-0.00057	-0.00057
	A	0.00558	0.00617	0.01091
	B	-0.00055	0.00011	0.00499
	B	0.00035	0.00036	0.00036
	B	-0.00036	-0.00034	-0.00019
	B	0.00448	0.00512	0.01003
	C	-0.00055	0.00035	0.00626
	C	0.00035	0.00036	0.00036
	C	-0.00012	-0.00010	0.00000
	C	0.00309	0.00426	0.01027

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(B * !C * Y)	-0.00087	-0.00086	-0.00085
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	0.00002	0.00002	0.00003
	(B * !C * Y)	0.00111	0.00112	0.00113
	(!B * C * Y)	-0.00086	-0.00085	-0.00085
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00113	0.00114	0.00115
	(!B * !C * Y)	-0.00086	-0.00086	-0.00086
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	0.00107	0.00108	0.00109

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(B * !C * Y)	0.00087	0.00090	0.00095
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00003	-0.00002	-0.00002
	(B * !C * Y)	-0.00105	-0.00098	-0.00088
	(!B * C * Y)	0.00087	0.00089	0.00094
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00107	-0.00102	-0.00096
	(!B * !C * Y)	0.00086	0.00086	0.00087
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	-0.00107	-0.00103	-0.00097

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(A * !C * Y)	-0.00087	-0.00086	-0.00086
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	0.00001	0.00002	0.00002
	(A * !C * Y)	0.00115	0.00116	0.00117
	(!A * C * Y)	-0.00090	-0.00090	-0.00089
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00016	0.00016	0.00017
	(!A * C * Y)	0.00028	0.00028	0.00029
	(!A * !C * Y)	-0.00090	-0.00090	-0.00090
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00023	0.00023	0.00023
	(!A * !C * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(A * !C * Y)	0.00089	0.00094	0.00102
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * Y)	-0.00109	-0.00103	-0.00091
	(!A * C * Y)	0.00090	0.00091	0.00092
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * Y)	-0.00028	-0.00028	-0.00028
	(!A * !C * Y)	0.00091	0.00092	0.00093
	(!A * !C * Y)	0.00001	0.00001	0.00002
	(!A * !C * Y)	-0.00023	-0.00023	-0.00023
	(!A * !C * Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(!B * Y)	-0.00125	-0.00125	-0.00124
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00010	0.00010	0.00010
	(!B * Y)	0.00027	0.00027	0.00027
	(!A * B * Y)	-0.00125	-0.00124	-0.00124
	(!A * B * Y)	-0.00002	-0.00001	-0.00001
	(!A * B * Y)	0.00010	0.00010	0.00011
	(!A * B * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7L	(!B * Y)	0.00124	0.00125	0.00126
	(!B * Y)	0.00001	0.00001	0.00002
	(!B * Y)	-0.00010	-0.00010	-0.00009
	(!B * Y)	-0.00026	-0.00026	-0.00026
	(!A * B * Y)	0.00124	0.00125	0.00125
	(!A * B * Y)	0.00001	0.00002	0.00002
	(!A * B * Y)	-0.00010	-0.00010	-0.00010
	(!A * B * Y)	-0.00024	-0.00024	-0.00023

NAND4BBX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P5H7L	0.00087	0.00074	0.00070	0.00075	0.02211

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P5H7L	0.00000	1.56985	3.27924

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7L	A0->YN (RR)	0.03366	0.09876	0.25315
	A1->YN (RR)	0.03548	0.10248	0.25966
	B0->YN (FR)	0.02012	0.11695	0.45113
	B1->YN (FR)	0.01889	0.11449	0.44966

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7L	A0->YN (FF)	0.05698	0.19572	0.54617
	A1->YN (FF)	0.05931	0.20121	0.55861
	B0->YN (RF)	0.03581	0.17540	0.59779
	B1->YN (RF)	0.03315	0.17151	0.59389

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	A0	0.00086	0.00114	0.00209
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00009	0.00009	0.00009
	A0	0.00098	0.00126	0.00221
	A1	0.00097	0.00123	0.00215
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00004	0.00006	0.00006
	A1	0.00111	0.00138	0.00230
	B0	0.00078	0.00090	0.00160
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00005	0.00007
	B0	-0.00001	0.00014	0.00083
	B1	0.00063	0.00076	0.00155
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00001	0.00002	0.00004
	B1	0.00000	0.00015	0.00092

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	A0	0.00108	0.00138	0.00238
	A0	0.00004	0.00005	0.00006
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00097	0.00127	0.00228
	A1	0.00108	0.00138	0.00236
	A1	0.00005	0.00005	0.00005
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00094	0.00124	0.00221
	B0	0.00005	0.00013	0.00066
	B0	0.00006	0.00006	0.00006
	B0	-0.00005	-0.00004	-0.00002
	B0	0.00082	0.00090	0.00143
	B1	0.00010	0.00021	0.00087
	B1	0.00006	0.00006	0.00006
	B1	-0.00002	-0.00001	-0.00001
	B1	0.00073	0.00083	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00032	0.00124
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00071	0.00098	0.00190
	(A1 * !B1 * YN)	0.00005	0.00032	0.00124
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00071	0.00098	0.00189
	(A1 * !B0 * B1 * YN)	0.00005	0.00032	0.00124
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00071	0.00098	0.00189
	(!A1 * !B0 * !B1 * YN)	0.00009	0.00036	0.00128
	(!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00075	0.00102	0.00194

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00072	0.00103	0.00203
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00007	0.00038	0.00138
	(A1 * !B1 * YN)	0.00072	0.00102	0.00203
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	0.00007	0.00037	0.00138
	(A1 * !B0 * B1 * YN)	0.00072	0.00102	0.00203
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	0.00007	0.00037	0.00137
	(!A1 * !B0 * !B1 * YN)	0.00068	0.00098	0.00199
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00033	0.00133

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00011	0.00038	0.00129
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00081	0.00107	0.00198
	(!B0 * !B1 * YN)	0.00011	0.00038	0.00128
	(!B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!B0 * !B1 * YN)	0.00082	0.00108	0.00199

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00073	0.00103	0.00202
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00034	0.00132
	(!B0 * !B1 * YN)	0.00075	0.00104	0.00202
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!B0 * !B1 * YN)	0.00004	0.00034	0.00132

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B1 * YN)	0.00014	0.00014	0.00015
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00025	-0.00023	-0.00023
	(A0 * !A1 * !B1 * YN)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	0.00013	0.00014	0.00014
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * B1 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B0 * YN)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A1 * B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00020	-0.00020	-0.00020
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00002	0.00002
	(!B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7L	(A1 * B0 * YN)	0.00020	0.00020	0.00020
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00020	0.00020	0.00020
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00001
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P7H7L	0.00087	0.00075	0.00076	0.00082	0.02554

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P7H7L	0.00000	1.58843	3.35226

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7L	A0->YN (RR)	0.03272	0.09937	0.25725
	A1->YN (RR)	0.03445	0.10288	0.26353
	B0->YN (FR)	0.01896	0.11700	0.45637
	B1->YN (FR)	0.01780	0.11461	0.45457

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7L	A0->YN (FF)	0.05461	0.19494	0.54955
	A1->YN (FF)	0.05661	0.19996	0.56081
	B0->YN (RF)	0.03321	0.17395	0.60409
	B1->YN (RF)	0.03065	0.17012	0.59992

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	A0	0.00094	0.00121	0.00217
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00011	0.00011	0.00011
	A0	0.00100	0.00128	0.00223
	A1	0.00104	0.00131	0.00223
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00005	0.00007	0.00007
	A1	0.00113	0.00140	0.00232
	B0	0.00082	0.00097	0.00175
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00000	0.00005	0.00007
	B0	-0.00003	0.00014	0.00091
	B1	0.00067	0.00083	0.00171
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00001	0.00002	0.00004
	B1	-0.00001	0.00015	0.00102

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	**A0**	0.00112	0.00142	0.00242
	A0	0.00005	0.00006	0.00007
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00107	0.00137	0.00238
	A1	0.00111	0.00140	0.00238
	A1	0.00005	0.00006	0.00006
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00103	0.00132	0.00229
	B0	0.00005	0.00015	0.00074
	B0	0.00007	0.00007	0.00007
	B0	-0.00005	-0.00005	0.00000
	B0	0.00090	0.00099	0.00159
	B1	0.00011	0.00023	0.00096
	B1	0.00007	0.00007	0.00007
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00079	0.00091	0.00165

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00033	0.00124
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00073	0.00100	0.00191
	(A1 * !B1 * YN)	0.00006	0.00033	0.00124
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00073	0.00099	0.00191
	(A1 * !B0 * B1 * YN)	0.00006	0.00033	0.00124
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00073	0.00099	0.00191
	(!A1 * !B0 * !B1 * YN)	-0.00024	0.00032	0.00128
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00007	0.00040
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00077	0.00104	0.00195

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00074	0.00103	0.00204
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00008	0.00038	0.00138
	(A1 * !B1 * YN)	0.00073	0.00103	0.00203
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	0.00007	0.00037	0.00137
	(A1 * !B0 * B1 * YN)	0.00073	0.00103	0.00203
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	0.00007	0.00037	0.00137
	(!A1 * !B0 * !B1 * YN)	0.00070	0.00100	0.00200
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00033	0.00133

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00013	0.00039	0.00130
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00082	0.00109	0.00200
	(!B0 * !B1 * YN)	0.00013	0.00039	0.00129
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!B0 * !B1 * YN)	0.00084	0.00110	0.00201

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00073	0.00102	0.00201
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00033	0.00131
	(!B0 * !B1 * YN)	0.00075	0.00104	0.00202
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!B0 * !B1 * YN)	0.00004	0.00033	0.00131

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00003	0.00003	0.00004
	(A1 * B1 * YN)	0.00013	0.00014	0.00014
	(A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B1 * YN)	0.00015	0.00015	0.00015
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * YN)	0.00022	0.00023	0.00024
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B0 * YN)	-0.00023	-0.00023	-0.00022
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * YN)	-0.00025	-0.00024	-0.00024
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00023	-0.00023	-0.00022
	(!B0 * YN)	-0.00000	-0.00000	0.00000
	(!B0 * YN)	0.00002	0.00002	0.00002
	(!B0 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7L	(A1 * B0 * YN)	0.00023	0.00023	0.00023
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00024	0.00025	0.00025
	(A0 * !A1 * B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00023	0.00023	0.00023
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00006

NAND4BBX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1H7L	0.00088	0.00074	0.00083	0.00089	0.03022

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1H7L	0.00000	1.61900	3.47434

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7L	A0->YN (RR)	0.03170	0.09893	0.25750
	A1->YN (RR)	0.03329	0.10222	0.26366
	B0->YN (FR)	0.01770	0.11561	0.45710
	B1->YN (FR)	0.01635	0.11298	0.45509

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7L	A0->YN (FF)	0.05274	0.19445	0.55235
	A1->YN (FF)	0.05431	0.19895	0.56260
	B0->YN (RF)	0.03089	0.17214	0.60418
	B1->YN (RF)	0.02788	0.16794	0.60030

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	A0	0.00106	0.00133	0.00229
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00013	0.00013	0.00013
	A0	0.00104	0.00131	0.00228
	A1	0.00117	0.00144	0.00236
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00009	0.00009	0.00009
	A1	0.00118	0.00145	0.00238
	B0	0.00092	0.00110	0.00200
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00003	0.00006	0.00008
	B0	-0.00002	0.00017	0.00106
	B1	0.00074	0.00093	0.00196
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00000	0.00002	0.00003
	B1	-0.00001	0.00018	0.00119

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	A0	0.00119	0.00148	0.00248
	A0	0.00007	0.00007	0.00007
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00122	0.00152	0.00253
	A1	0.00115	0.00144	0.00241
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00115	0.00144	0.00241
	B0	0.00006	0.00016	0.00086
	B0	0.00008	0.00009	0.00009
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00100	0.00110	0.00181
	B1	0.00011	0.00025	0.00111
	B1	0.00008	0.00009	0.00009
	B1	-0.00002	-0.00002	0.00000
	B1	0.00087	0.00101	0.00188

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00009	0.00035	0.00125
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00076	0.00102	0.00192
	(A1 * !B1 * YN)	0.00008	0.00035	0.00125
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00075	0.00102	0.00192
	(A1 * !B0 * B1 * YN)	0.00008	0.00035	0.00125
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00075	0.00102	0.00192
	(!A1 * !B0 * !B1 * YN)	0.00012	0.00038	0.00128
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00079	0.00105	0.00195

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00075	0.00105	0.00204
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00009	0.00039	0.00138
	(A1 * !B1 * YN)	0.00075	0.00104	0.00204
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	0.00009	0.00038	0.00137
	(A1 * !B0 * B1 * YN)	0.00075	0.00104	0.00204
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	0.00009	0.00038	0.00137
	(!A1 * !B0 * !B1 * YN)	0.00072	0.00102	0.00201
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	0.00005	0.00035	0.00134

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00016	0.00042	0.00132
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00085	0.00112	0.00202
	(!B0 * !B1 * YN)	0.00016	0.00042	0.00132
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * !B1 * YN)	0.00087	0.00113	0.00203

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00072	0.00101	0.00199
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00032	0.00129
	(!B0 * !B1 * YN)	0.00074	0.00103	0.00200
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!B0 * !B1 * YN)	0.00003	0.00032	0.00129

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B1 * YN)	-0.00017	-0.00016	-0.00016
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	-0.00017	-0.00016	-0.00016
	(A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B1 * YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B1 * YN)	0.00017	0.00017	0.00017
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(A1 * !B1 * YN)	0.00017	0.00017	0.00017
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * B1 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00024	0.00025	0.00026
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B0 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00007
	(!B0 * YN)	-0.00025	-0.00025	-0.00025
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00002	0.00002
	(!B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7L	(A1 * B0 * YN)	0.00025	0.00025	0.00025
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * YN)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00025	0.00025	0.00025
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1P4H7L	0.00087	0.00075	0.00090	0.00097	0.03508

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1P4H7L	0.00000	1.65253	3.61069

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7L	A0->YN (RR)	0.03014	0.09883	0.26086
	A1->YN (RR)	0.03218	0.10267	0.26780
	B0->YN (FR)	0.01643	0.11522	0.46188
	B1->YN (FR)	0.01491	0.11241	0.46005

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7L	A0->YN (FF)	0.04933	0.19247	0.55338
	A1->YN (FF)	0.05143	0.19771	0.56522
	B0->YN (RF)	0.02812	0.16993	0.60636
	B1->YN (RF)	0.02462	0.16535	0.60099

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	A0	0.00110	0.00137	0.00235
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00015	0.00015	0.00015
	A0	0.00098	0.00125	0.00223
	A1	0.00124	0.00151	0.00245
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00010	0.00011	0.00011
	A1	0.00114	0.00141	0.00235
	B0	0.00095	0.00116	0.00220
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00007	0.00011
	B0	-0.00011	0.00010	0.00112
	B1	0.00078	0.00098	0.00217
	B1	-0.00010	-0.00010	-0.00009
	B1	0.00001	0.00002	0.00003
	B1	-0.00011	0.00010	0.00127

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	A0	0.00121	0.00150	0.00249
	A0	0.00008	0.00009	0.00009
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00136	0.00165	0.00265
	A1	0.00116	0.00146	0.00242
	A1	0.00008	0.00009	0.00009
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00127	0.00157	0.00254
	B0	0.00004	0.00017	0.00098
	B0	0.00010	0.00010	0.00010
	B0	-0.00008	-0.00007	-0.00004
	B0	0.00110	0.00124	0.00206
	B1	0.00008	0.00025	0.00125
	B1	0.00009	0.00010	0.00010
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00096	0.00113	0.00215

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00008	0.00034	0.00124
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00075	0.00101	0.00191
	(A1 * !B1 * YN)	0.00008	0.00034	0.00124
	(A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00074	0.00101	0.00190
	(A1 * !B0 * B1 * YN)	0.00008	0.00034	0.00124
	(A1 * !B0 * B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00074	0.00100	0.00190
	(!A1 * !B0 * !B1 * YN)	0.00013	0.00039	0.00129
	(!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00080	0.00106	0.00195

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00078	0.00107	0.00206
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00012	0.00042	0.00140
	(A1 * !B1 * YN)	0.00078	0.00107	0.00206
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	0.00012	0.00041	0.00140
	(A1 * !B0 * B1 * YN)	0.00078	0.00107	0.00206
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	0.00012	0.00041	0.00140
	(!A1 * !B0 * !B1 * YN)	0.00073	0.00102	0.00201
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	0.00007	0.00036	0.00134

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00018	0.00044	0.00134
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00087	0.00114	0.00204
	(!B0 * !B1 * YN)	0.00018	0.00044	0.00133
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(!B0 * !B1 * YN)	0.00089	0.00115	0.00205

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00072	0.00101	0.00198
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00032	0.00129
	(!B0 * !B1 * YN)	0.00074	0.00103	0.00200
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(!B0 * !B1 * YN)	0.00003	0.00032	0.00129

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B1 * YN)	-0.00021	-0.00021	-0.00021
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00003	0.00004	0.00004
	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B1 * YN)	0.00021	0.00021	0.00021
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00012
	(A1 * !B1 * YN)	0.00021	0.00021	0.00022
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B1 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00032	0.00033	0.00033
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * YN)	0.00028	0.00028	0.00030
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B0 * YN)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * YN)	0.00010	0.00010	0.00011
	(A0 * !A1 * B0 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00008	0.00008	0.00008
	(!B0 * YN)	-0.00028	-0.00028	-0.00028
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00002	0.00003
	(!B0 * YN)	0.00009	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7L	(A1 * B0 * YN)	0.00028	0.00028	0.00028
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * YN)	-0.00008	-0.00008	-0.00007
	(!B0 * YN)	0.00028	0.00028	0.00028
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00003	-0.00002	-0.00002
	(!B0 * YN)	-0.00010	-0.00010	-0.00009

NAND4BBX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX2H7L	0.00088	0.00075	0.00098	0.00107	0.04266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX2H7L	0.00000	1.70989	3.84264

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7L	A0->YN (RR)	0.03008	0.10154	0.26968
	A1->YN (RR)	0.03176	0.10490	0.27624
	B0->YN (FR)	0.01525	0.11595	0.46913
	B1->YN (FR)	0.01377	0.11307	0.46766

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7L	A0->YN (FF)	0.04806	0.19328	0.55880
	A1->YN (FF)	0.04946	0.19767	0.56946
	B0->YN (RF)	0.02520	0.16770	0.60941
	B1->YN (RF)	0.02180	0.16321	0.60297

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	A0	0.00125	0.00155	0.00254
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00018	0.00018	0.00019
	A0	0.00106	0.00133	0.00233
	A1	0.00139	0.00166	0.00262
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00013	0.00013	0.00014
	A1	0.00120	0.00148	0.00244
	B0	0.00104	0.00129	0.00254
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00005	0.00009	0.00016
	B0	-0.00013	0.00014	0.00137
	B1	0.00086	0.00110	0.00253
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00002	0.00003	0.00006
	B1	-0.00011	0.00015	0.00156

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	A0	0.00128	0.00158	0.00255
	A0	0.00010	0.00011	0.00011
	A0	-0.00019	-0.00018	-0.00018
	A0	0.00153	0.00182	0.00281
	A1	0.00122	0.00151	0.00247
	A1	0.00011	0.00011	0.00011
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00142	0.00171	0.00267
	B0	0.00005	0.00019	0.00119
	B0	0.00012	0.00012	0.00012
	B0	-0.00009	-0.00009	-0.00005
	B0	0.00121	0.00136	0.00237
	B1	0.00008	0.00027	0.00149
	B1	0.00012	0.00012	0.00012
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00103	0.00122	0.00246

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00012	0.00038	0.00126
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00080	0.00105	0.00194
	(A1 * !B1 * YN)	0.00012	0.00037	0.00126
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00079	0.00105	0.00194
	(A1 * !B0 * B1 * YN)	0.00012	0.00037	0.00126
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00079	0.00105	0.00194
	(!A1 * !B0 * !B1 * YN)	0.00017	0.00043	0.00131
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00086	0.00111	0.00199

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00081	0.00109	0.00206
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00015	0.00043	0.00140
	(A1 * !B1 * YN)	0.00080	0.00109	0.00206
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	0.00013	0.00042	0.00139
	(A1 * !B0 * B1 * YN)	0.00080	0.00109	0.00206
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	0.00013	0.00042	0.00139
	(!A1 * !B0 * !B1 * YN)	0.00075	0.00104	0.00201
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	0.00008	0.00036	0.00133

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00020	0.00046	0.00135
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00001	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00091	0.00117	0.00206
	(!B0 * !B1 * YN)	0.00020	0.00046	0.00134
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(!B0 * !B1 * YN)	0.00094	0.00119	0.00208

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00075	0.00103	0.00199
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00032	0.00128
	(!B0 * !B1 * YN)	0.00077	0.00105	0.00201
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00007	0.00007	0.00008
	(!B0 * !B1 * YN)	0.00004	0.00032	0.00128

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B1 * YN)	-0.00023	-0.00022	-0.00022
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * B1 * YN)	0.00012	0.00013	0.00013
	(A1 * !B1 * YN)	-0.00023	-0.00022	-0.00022
	(A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00008
	(A0 * !A1 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B1 * YN)	0.00023	0.00023	0.00023
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * B1 * YN)	-0.00013	-0.00012	-0.00012
	(A1 * !B1 * YN)	0.00023	0.00023	0.00023
	(A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B1 * YN)	0.00030	0.00031	0.00031
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00028	0.00029	0.00032
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B0 * YN)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00031	-0.00031	-0.00031
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00003	0.00003
	(!B0 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7L	(A1 * B0 * YN)	0.00030	0.00031	0.00031
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B0 * YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00005
	(!B0 * YN)	0.00031	0.00031	0.00031
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00003	-0.00003	-0.00002
	(!B0 * YN)	-0.00008	-0.00008	-0.00008

NAND4BBX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX3H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX3H7L	0.00089	0.00081	0.00157	0.00179	0.06133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX3H7L	0.00000	1.95160	4.88104

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7L	A0->YN (RR)	0.03769	0.11170	0.27958
	A1->YN (RR)	0.03772	0.11146	0.27890
	B0->YN (FR)	0.01535	0.11108	0.44929
	B1->YN (FR)	0.01390	0.10819	0.44747

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7L	A0->YN (FF)	0.06067	0.20716	0.57061
	A1->YN (FF)	0.05896	0.20657	0.57259
	B0->YN (RF)	0.02577	0.16311	0.58805
	B1->YN (RF)	0.02235	0.15871	0.58511

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	A0	0.00250	0.00278	0.00378
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00028	0.00029	0.00029
	A0	0.00176	0.00201	0.00302
	A1	0.00268	0.00295	0.00395
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00017	0.00020	0.00025
	A1	0.00188	0.00218	0.00318
	B0	0.00177	0.00212	0.00407
	B0	-0.00018	-0.00018	-0.00015
	B0	0.00007	0.00013	0.00015
	B0	-0.00006	0.00032	0.00224
	B1	0.00148	0.00187	0.00411
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00002	0.00004	0.00008
	B1	-0.00008	0.00033	0.00254

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	A0	0.00198	0.00226	0.00314
	A0	0.00017	0.00017	0.00017
	A0	-0.00029	-0.00029	-0.00028
	A0	0.00280	0.00308	0.00398
	A1	0.00167	0.00196	0.00286
	A1	0.00017	0.00017	0.00017
	A1	-0.00021	-0.00020	-0.00017
	A1	0.00248	0.00277	0.00368
	B0	0.00022	0.00045	0.00202
	B0	0.00015	0.00018	0.00019
	B0	-0.00014	-0.00013	-0.00007
	B0	0.00206	0.00228	0.00386
	B1	0.00022	0.00053	0.00245
	B1	0.00018	0.00018	0.00018
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00178	0.00208	0.00403

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00025	0.00047	0.00127
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00099	0.00121	0.00201
	(A1 * !B1 * YN)	0.00025	0.00047	0.00127
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * YN)	0.00100	0.00121	0.00201
	(A1 * !B0 * B1 * YN)	0.00025	0.00047	0.00127
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * B1 * YN)	0.00099	0.00120	0.00200
	(!A1 * !B0 * !B1 * YN)	0.00041	0.00063	0.00142
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00114	0.00135	0.00214

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00116	0.00140	0.00228
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00044	0.00069	0.00157
	(A1 * !B1 * YN)	0.00115	0.00140	0.00228
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00003	0.00004	0.00004
	(A1 * !B1 * YN)	0.00042	0.00066	0.00154
	(A1 * !B0 * B1 * YN)	0.00115	0.00140	0.00228
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00003	0.00004	0.00004
	(A1 * !B0 * B1 * YN)	0.00042	0.00067	0.00155
	(!A1 * !B0 * !B1 * YN)	0.00100	0.00125	0.00213
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * YN)	0.00028	0.00053	0.00141

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00038	0.00062	0.00146
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00109	0.00132	0.00217
	(!B0 * !B1 * YN)	0.00038	0.00062	0.00145
	(!B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!B0 * !B1 * YN)	0.00112	0.00136	0.00219

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00083	0.00108	0.00199
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00007	0.00007	0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00013	0.00039	0.00129
	(!B0 * !B1 * YN)	0.00087	0.00112	0.00203
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!B0 * !B1 * YN)	0.00014	0.00040	0.00130

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B1 * YN)	-0.00036	-0.00036	-0.00035
	(A1 * B1 * YN)	-0.00001	-0.00000	0.00000
	(A1 * B1 * YN)	0.00005	0.00005	0.00005
	(A1 * B1 * YN)	0.00017	0.00018	0.00018
	(A1 * !B1 * YN)	-0.00036	-0.00036	-0.00036
	(A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00007	0.00007	0.00008
	(A1 * !B1 * YN)	0.00019	0.00019	0.00019
	(A0 * !A1 * B1 * YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * YN)	0.00014	0.00015	0.00016
	(A0 * !A1 * !B1 * YN)	-0.00044	-0.00043	-0.00043
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * YN)	-0.00036	-0.00035	-0.00035
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00043	0.00043	0.00043

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B1 * YN)	0.00036	0.00036	0.00036
	(A1 * B1 * YN)	-0.00000	0.00000	0.00001
	(A1 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * YN)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * YN)	0.00037	0.00038	0.00038
	(A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * !B1 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * B1 * YN)	0.00040	0.00040	0.00041
	(A0 * !A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * YN)	0.00045	0.00046	0.00047
	(A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B1 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * YN)	0.00036	0.00038	0.00040
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00040	-0.00038	-0.00034

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B0 * YN)	-0.00050	-0.00050	-0.00050
	(A1 * B0 * YN)	-0.00001	-0.00000	0.00000
	(A1 * B0 * YN)	0.00002	0.00004	0.00004
	(A1 * B0 * YN)	0.00015	0.00016	0.00018
	(A0 * !A1 * B0 * YN)	-0.00053	-0.00053	-0.00052
	(A0 * !A1 * B0 * YN)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * YN)	0.00004	0.00005	0.00007
	(A0 * !A1 * B0 * YN)	0.00012	0.00014	0.00015
	(!B0 * YN)	-0.00050	-0.00050	-0.00050
	(!B0 * YN)	-0.00001	-0.00000	-0.00000
	(!B0 * YN)	0.00004	0.00005	0.00006
	(!B0 * YN)	0.00013	0.00013	0.00014

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7L	(A1 * B0 * YN)	0.00050	0.00050	0.00051
	(A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * YN)	-0.00004	-0.00004	-0.00002
	(A1 * B0 * YN)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * B0 * YN)	0.00052	0.00053	0.00053
	(A0 * !A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00004	-0.00004	-0.00002
	(A0 * !A1 * B0 * YN)	-0.00014	-0.00014	-0.00012
	(!B0 * YN)	0.00050	0.00050	0.00051
	(!B0 * YN)	0.00000	0.00000	0.00001
	(!B0 * YN)	-0.00005	-0.00005	-0.00004
	(!B0 * YN)	-0.00013	-0.00013	-0.00012

NAND4BBX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX4H7L	0.00105	0.00097	0.00185	0.00212	0.08042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX4H7L	0.00000	2.50606	6.19721

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7L	A0->YN (RR)	0.03113	0.10261	0.26585
	A1->YN (RR)	0.03116	0.10222	0.26504
	B0->YN (FR)	0.01414	0.11091	0.45450
	B1->YN (FR)	0.01272	0.10806	0.45264

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7L	A0->YN (FF)	0.05173	0.19724	0.55919
	A1->YN (FF)	0.05005	0.19640	0.56100
	B0->YN (RF)	0.02312	0.16107	0.59235
	B1->YN (RF)	0.01978	0.15666	0.58690

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	A0	0.00297	0.00334	0.00475
	A0	-0.00022	-0.00022	-0.00020
	A0	0.00037	0.00037	0.00038
	A0	0.00200	0.00238	0.00378
	A1	0.00311	0.00349	0.00489
	A1	-0.00022	-0.00022	-0.00021
	A1	0.00026	0.00026	0.00032
	A1	0.00215	0.00254	0.00395
	B0	0.00208	0.00255	0.00507
	B0	-0.00024	-0.00024	-0.00024
	B0	0.00010	0.00017	0.00019
	B0	-0.00013	0.00035	0.00282
	B1	0.00174	0.00224	0.00513
	B1	-0.00024	-0.00024	-0.00023
	B1	0.00000	0.00006	0.00009
	B1	-0.00019	0.00038	0.00323

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	A0	0.00239	0.00279	0.00408
	A0	0.00020	0.00022	0.00024
	A0	-0.00038	-0.00037	-0.00037
	A0	0.00342	0.00382	0.00513
	A1	0.00201	0.00243	0.00375
	A1	0.00022	0.00022	0.00022
	A1	-0.00027	-0.00026	-0.00026
	A1	0.00301	0.00343	0.00479
	B0	0.00022	0.00052	0.00257
	B0	0.00024	0.00024	0.00025
	B0	-0.00018	-0.00017	-0.00010
	B0	0.00245	0.00276	0.00483
	B1	0.00022	0.00062	0.00312
	B1	0.00024	0.00024	0.00025
	B1	-0.00006	-0.00005	0.00000
	B1	0.00210	0.00249	0.00502

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00031	0.00064	0.00181
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00121	0.00154	0.00270
	(A1 * !B1 * YN)	0.00030	0.00063	0.00181
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B1 * YN)	0.00121	0.00154	0.00271
	(A1 * !B0 * B1 * YN)	0.00030	0.00063	0.00181
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * B1 * YN)	0.00120	0.00153	0.00270
	(!A1 * !B0 * !B1 * YN)	0.00046	0.00079	0.00196
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00134	0.00167	0.00283

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00134	0.00172	0.00302
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00048	0.00085	0.00216
	(A1 * !B1 * YN)	0.00133	0.00171	0.00302
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00005	0.00006	0.00006
	(A1 * !B1 * YN)	0.00045	0.00082	0.00212
	(A1 * !B0 * B1 * YN)	0.00133	0.00171	0.00301
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * YN)	0.00046	0.00083	0.00213
	(!A1 * !B0 * !B1 * YN)	0.00119	0.00157	0.00287
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * YN)	0.00032	0.00070	0.00200

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00044	0.00080	0.00203
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00010	-0.00010	-0.00009
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00131	0.00167	0.00290
	(!B0 * !B1 * YN)	0.00044	0.00079	0.00201
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(!B0 * !B1 * YN)	0.00135	0.00170	0.00292

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00097	0.00136	0.00270
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00010	0.00010	0.00010
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00011	0.00050	0.00184
	(!B0 * !B1 * YN)	0.00101	0.00141	0.00274
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00012	0.00013	0.00013
	(!B0 * !B1 * YN)	0.00012	0.00051	0.00184

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B1 * YN)	-0.00044	-0.00044	-0.00043
	(A1 * B1 * YN)	-0.00001	0.00001	0.00009
	(A1 * B1 * YN)	0.00007	0.00007	0.00007
	(A1 * B1 * YN)	0.00018	0.00019	0.00020
	(A1 * !B1 * YN)	-0.00044	-0.00044	-0.00043
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00010	0.00010	0.00010
	(A1 * !B1 * YN)	0.00020	0.00020	0.00021
	(A0 * !A1 * B1 * YN)	-0.00049	-0.00049	-0.00048
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * YN)	0.00007	0.00008	0.00009
	(A0 * !A1 * B1 * YN)	0.00015	0.00015	0.00016
	(A0 * !A1 * !B1 * YN)	-0.00053	-0.00053	-0.00052
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B1 * YN)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * YN)	-0.00043	-0.00043	-0.00043
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00050	0.00051	0.00051

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B1 * YN)	0.00044	0.00044	0.00044
	(A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A1 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * YN)	-0.00018	-0.00018	-0.00018
	(A1 * !B1 * YN)	0.00045	0.00046	0.00047
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A1 * !B1 * YN)	-0.00021	-0.00020	-0.00020
	(A0 * !A1 * B1 * YN)	0.00049	0.00049	0.00050
	(A0 * !A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * YN)	0.00055	0.00056	0.00056
	(A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * !B1 * YN)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * YN)	0.00044	0.00046	0.00049
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00047	-0.00045	-0.00040

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B0 * YN)	-0.00063	-0.00062	-0.00062
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * YN)	0.00005	0.00005	0.00005
	(A1 * B0 * YN)	0.00015	0.00015	0.00016
	(A0 * !A1 * B0 * YN)	-0.00065	-0.00065	-0.00065
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * YN)	0.00004	0.00005	0.00006
	(A0 * !A1 * B0 * YN)	0.00013	0.00014	0.00015
	(!B0 * YN)	-0.00062	-0.00062	-0.00062
	(!B0 * YN)	-0.00001	-0.00001	-0.00000
	(!B0 * YN)	0.00005	0.00006	0.00007
	(!B0 * YN)	0.00012	0.00012	0.00013

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7L	(A1 * B0 * YN)	0.00062	0.00063	0.00063
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * YN)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * B0 * YN)	0.00065	0.00065	0.00066
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00005	-0.00004
	(A0 * !A1 * B0 * YN)	-0.00013	-0.00013	-0.00012
	(!B0 * YN)	0.00062	0.00063	0.00063
	(!B0 * YN)	0.00000	0.00001	0.00001
	(!B0 * YN)	-0.00006	-0.00006	-0.00005
	(!B0 * YN)	-0.00013	-0.00012	-0.00012

NAND4BBX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX6H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX6H7L	0.00107	0.00098	0.00291	0.00295	0.12357

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX6H7L	0.00000	3.15744	8.27648

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7L	A0->YN (RR)	0.03127	0.10639	0.27698
	A1->YN (RR)	0.03107	0.10574	0.27635
	B0->YN (FR)	0.01365	0.11175	0.46109
	B1->YN (FR)	0.01158	0.10784	0.45857

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7L	A0->YN (FF)	0.05182	0.20351	0.58034
	A1->YN (FF)	0.04910	0.20179	0.58161
	B0->YN (RF)	0.02255	0.16433	0.60506
	B1->YN (RF)	0.01750	0.15863	0.60128

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	A0	0.00436	0.00479	0.00653
	A0	-0.00033	-0.00033	-0.00029
	A0	0.00052	0.00056	0.00057
	A0	0.00244	0.00288	0.00462
	A1	0.00427	0.00472	0.00646
	A1	-0.00033	-0.00033	-0.00033
	A1	0.00032	0.00040	0.00048
	A1	0.00240	0.00290	0.00463
	B0	0.00327	0.00395	0.00773
	B0	-0.00036	-0.00036	-0.00035
	B0	0.00018	0.00026	0.00027
	B0	-0.00030	0.00041	0.00413
	B1	0.00247	0.00325	0.00764
	B1	-0.00036	-0.00034	0.00023
	B1	0.00007	0.00017	0.00426
	B1	-0.00268	0.00044	0.00485

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	A0	0.00315	0.00363	0.00512
	A0	0.00030	0.00033	0.00036
	A0	-0.00057	-0.00056	-0.00052
	A0	0.00518	0.00566	0.00719
	A1	0.00255	0.00303	0.00458
	A1	0.00033	0.00033	0.00034
	A1	-0.00042	-0.00040	-0.00032
	A1	0.00447	0.00495	0.00650
	B0	0.00012	0.00057	0.00369
	B0	0.00036	0.00036	0.00036
	B0	-0.00027	-0.00026	-0.00018
	B0	0.00374	0.00416	0.00732
	B1	0.00016	0.00077	0.00465
	B1	0.00035	0.00036	0.00036
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00293	0.00351	0.00744

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00051	0.00089	0.00223
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00141	0.00177	0.00309
	(A1 * !B1 * YN)	0.00052	0.00089	0.00222
	(A1 * !B1 * YN)	0.00003	0.00004	0.00004
	(A1 * !B1 * YN)	-0.00007	-0.00006	-0.00005
	(A1 * !B1 * YN)	0.00139	0.00176	0.00309
	(A1 * !B0 * B1 * YN)	0.00050	0.00088	0.00222
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * B1 * YN)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * B1 * YN)	0.00139	0.00175	0.00308
	(!A1 * !B0 * !B1 * YN)	0.00071	0.00108	0.00241
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * YN)	0.00160	0.00197	0.00328

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00163	0.00207	0.00355
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00080	0.00123	0.00272
	(A1 * !B1 * YN)	0.00162	0.00205	0.00354
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * YN)	0.00005	0.00006	0.00007
	(A1 * !B1 * YN)	0.00077	0.00120	0.00269
	(A1 * !B0 * B1 * YN)	0.00162	0.00205	0.00354
	(A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * B1 * YN)	0.00077	0.00120	0.00269
	(!A1 * !B0 * !B1 * YN)	0.00144	0.00187	0.00336
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !B1 * YN)	0.00058	0.00100	0.00249

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00054	0.00094	0.00236
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00153	0.00194	0.00335
	(!B0 * !B1 * YN)	0.00053	0.00093	0.00233
	(!B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!B0 * !B1 * YN)	0.00160	0.00200	0.00340

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00126	0.00171	0.00325
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00017	0.00017	0.00017
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00028	0.00072	0.00226
	(!B0 * !B1 * YN)	0.00132	0.00177	0.00329
	(!B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!B0 * !B1 * YN)	0.00028	0.00072	0.00225

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B1 * YN)	-0.00067	-0.00066	-0.00066
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * B1 * YN)	0.00029	0.00029	0.00030
	(A1 * !B1 * YN)	-0.00067	-0.00067	-0.00066
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * YN)	0.00017	0.00018	0.00018
	(A1 * !B1 * YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * YN)	-0.00080	-0.00080	-0.00078
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00009	0.00012	0.00013
	(A0 * !A1 * B1 * YN)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B1 * YN)	-0.00087	-0.00086	-0.00085
	(A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B1 * YN)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B1 * YN)	-0.00068	-0.00067	-0.00065
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00085	0.00086	0.00086

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B1 * YN)	0.00066	0.00067	0.00067
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * B1 * YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B1 * YN)	0.00068	0.00069	0.00069
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00018	-0.00018	-0.00017
	(A1 * !B1 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * YN)	0.00079	0.00080	0.00081
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00012	-0.00012	-0.00009
	(A0 * !A1 * B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * YN)	0.00090	0.00093	0.00097
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * YN)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B1 * YN)	0.00070	0.00075	0.00085
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00079	-0.00074	-0.00066

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B0 * YN)	-0.00091	-0.00090	-0.00090
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * YN)	0.00008	0.00009	0.00011
	(A1 * B0 * YN)	0.00019	0.00020	0.00021
	(A0 * !A1 * B0 * YN)	-0.00097	-0.00096	-0.00094
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00008	0.00009
	(A0 * !A1 * B0 * YN)	0.00019	0.00020	0.00021
	(!B0 * YN)	-0.00091	-0.00088	-0.00073
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00008	0.00009	0.00009
	(!B0 * YN)	0.00016	0.00017	0.00017

Passive power(pJ) for B1 falling (conditional):

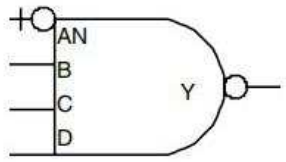
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7L	(A1 * B0 * YN)	0.00090	0.00091	0.00091
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * YN)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * B0 * YN)	0.00095	0.00096	0.00097
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * YN)	-0.00008	-0.00008	-0.00006
	(A0 * !A1 * B0 * YN)	-0.00019	-0.00019	-0.00018
	(!B0 * YN)	0.00091	0.00092	0.00092
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00008	-0.00008	-0.00008
	(!B0 * YN)	-0.00017	-0.00016	-0.00016

NAND4BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P5H7L	0.00084	0.00067	0.00069	0.00081	0.02217

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P5H7L	0.00000	0.91336	2.18839

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7L	AN->Y (RR)	0.03316	0.09795	0.25234
	B->Y (FR)	0.02134	0.11961	0.45383
	C->Y (FR)	0.02011	0.11701	0.45182
	D->Y (FR)	0.01920	0.11488	0.45078

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7L	AN->Y (FF)	0.05558	0.19432	0.54534
	B->Y (RF)	0.03818	0.17189	0.56768
	C->Y (RF)	0.03601	0.17562	0.59859
	D->Y (RF)	0.03384	0.17234	0.59794

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	AN	0.00102	0.00129	0.00225
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00009	0.00009	0.00009
	AN	0.00097	0.00125	0.00221
	B	0.00095	0.00109	0.00179
	B	-0.00006	-0.00006	-0.00006
	B	0.00008	0.00008	0.00010
	B	-0.00001	0.00015	0.00084
	C	0.00082	0.00095	0.00165
	C	-0.00006	-0.00006	-0.00006
	C	0.00003	0.00005	0.00005
	C	0.00003	0.00016	0.00085
	D	0.00074	0.00088	0.00166
	D	-0.00006	-0.00006	-0.00006
	D	0.00000	0.00002	0.00006
	D	-0.00002	0.00016	0.00092

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	AN	0.00086	0.00116	0.00217
	AN	0.00005	0.00005	0.00005
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00092	0.00123	0.00225
	B	-0.00004	0.00003	0.00055
	B	0.00006	0.00006	0.00006
	B	-0.00008	-0.00008	-0.00008
	B	0.00092	0.00099	0.00151
	C	-0.00001	0.00007	0.00059
	C	0.00006	0.00006	0.00006
	C	-0.00005	-0.00005	-0.00003
	C	0.00078	0.00086	0.00140
	D	-0.00002	0.00010	0.00074
	D	0.00006	0.00006	0.00006
	D	-0.00002	-0.00001	0.00000
	D	0.00071	0.00082	0.00148

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00032	0.00124
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00073	0.00100	0.00192
	(B * !C * !D * Y)	0.00004	0.00031	0.00124
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00073	0.00100	0.00192
	(!B * !D * Y)	0.00004	0.00032	0.00124
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	0.00072	0.00099	0.00191
	(!B * !C * D * Y)	0.00004	0.00031	0.00124
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00072	0.00099	0.00191

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00071	0.00101	0.00202
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00001	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00034	0.00135
	(B * !C * !D * Y)	0.00070	0.00101	0.00202
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00003	0.00033	0.00134
	(!B * !D * Y)	0.00070	0.00101	0.00202
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	0.00004	0.00034	0.00135
	(!B * !C * D * Y)	0.00070	0.00101	0.00202
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00004	0.00034	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00002	0.00003	0.00003
	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	-0.00013	-0.00013	-0.00012
	(AN * C * !D * Y)	-0.00000	-0.00000	0.00000
	(AN * C * !D * Y)	0.00003	0.00003	0.00003
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00013	-0.00012	-0.00012
	(AN * !C * D * Y)	-0.00000	-0.00000	0.00000
	(AN * !C * D * Y)	0.00003	0.00003	0.00003
	(AN * !C * D * Y)	0.00011	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00003	0.00003	0.00004
	(AN * !C * !D * Y)	0.00011	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(!AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * C * D * Y)	0.00012	0.00013	0.00013
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00002
	(AN * C * D * Y)	-0.00012	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00013	0.00013	0.00013
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00012	0.00013	0.00013
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00011
	(AN * !C * !D * Y)	0.00012	0.00013	0.00013
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00011
	(!AN * C * !D * Y)	0.00016	0.00017	0.00018
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	-0.00017	-0.00016	-0.00014
	(!AN * !C * D * Y)	0.00016	0.00016	0.00017
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	-0.00017	-0.00016	-0.00015
	(!AN * !C * !D * Y)	0.00016	0.00016	0.00016
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !D * Y)	-0.00017	-0.00017	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * B * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00002	0.00002	0.00002
	(AN * B * D * Y)	0.00007	0.00007	0.00007
	(AN * B * !D * Y)	-0.00014	-0.00014	-0.00014
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00003	0.00003	0.00003
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00014	-0.00014	-0.00014
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00002	0.00002	0.00002
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	0.00016	0.00016	0.00017

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * B * D * Y)	0.00014	0.00014	0.00014
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * !D * Y)	0.00014	0.00015	0.00015
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00014	0.00014	0.00014
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00015	0.00015	0.00016
	(!AN * B * !D * Y)	0.00000	0.00000	0.00001
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * B * C * Y)	-0.00023	-0.00022	-0.00022
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00001	0.00001	0.00002
	(AN * B * C * Y)	0.00007	0.00007	0.00008
	(!C * Y)	-0.00023	-0.00022	-0.00022
	(!C * Y)	-0.00000	-0.00000	0.00000
	(!C * Y)	0.00001	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00023	-0.00022	-0.00017
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00007	0.00007	0.00007

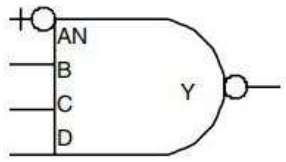
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7L	(AN * B * C * Y)	0.00022	0.00022	0.00023
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00006
	(!C * Y)	0.00022	0.00022	0.00023
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00001	-0.00001
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00022	0.00023	0.00023
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX0P7H7L

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P7H7L	0.00086	0.00073	0.00075	0.00085	0.02559

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P7H7L	0.00000	0.93195	2.26140

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7L	AN->Y (RR)	0.03218	0.09847	0.25621
	B->Y (FR)	0.02005	0.11946	0.45859
	C->Y (FR)	0.01890	0.11691	0.45685
	D->Y (FR)	0.01784	0.11458	0.45528

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7L	AN->Y (FF)	0.05308	0.19332	0.54776
	B->Y (RF)	0.03528	0.16999	0.57096
	C->Y (RF)	0.03326	0.17378	0.60327
	D->Y (RF)	0.03074	0.17011	0.60050

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	AN	0.00110	0.00137	0.00234
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00010	0.00011	0.00011
	AN	0.00098	0.00126	0.00222
	B	0.00101	0.00117	0.00196
	B	-0.00007	-0.00007	-0.00007
	B	0.00007	0.00009	0.00009
	B	-0.00000	0.00014	0.00092
	C	0.00087	0.00102	0.00180
	C	-0.00007	-0.00007	-0.00007
	C	0.00005	0.00005	0.00005
	C	0.00001	0.00016	0.00093
	D	0.00079	0.00094	0.00182
	D	-0.00007	-0.00007	-0.00007
	D	0.00001	0.00002	0.00002
	D	-0.00001	0.00015	0.00102

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	AN	0.00089	0.00119	0.00219
	AN	0.00006	0.00006	0.00006
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00102	0.00133	0.00233
	B	-0.00005	0.00003	0.00062
	B	0.00007	0.00007	0.00007
	B	-0.00009	-0.00009	-0.00007
	B	0.00100	0.00108	0.00167
	C	-0.00002	0.00007	0.00067
	C	0.00007	0.00007	0.00008
	C	-0.00005	-0.00005	-0.00005
	C	0.00086	0.00095	0.00155
	D	-0.00003	0.00010	0.00084
	D	0.00007	0.00007	0.00007
	D	-0.00002	-0.00002	-0.00001
	D	0.00077	0.00089	0.00163

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00032	0.00124
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00075	0.00101	0.00192
	(B * !C * !D * Y)	0.00005	0.00032	0.00124
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00074	0.00101	0.00192
	(!B * !D * Y)	0.00005	0.00032	0.00124
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00073	0.00100	0.00192
	(!B * !C * D * Y)	0.00005	0.00032	0.00124
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00073	0.00100	0.00192

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00073	0.00103	0.00203
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00036	0.00136
	(B * !C * !D * Y)	0.00072	0.00103	0.00203
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00002	0.00002	0.00003
	(B * !C * !D * Y)	0.00004	0.00034	0.00135
	(!B * !D * Y)	0.00072	0.00103	0.00203
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00005	0.00035	0.00136
	(!B * !C * D * Y)	0.00072	0.00103	0.00203
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00005	0.00035	0.00136

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00003	0.00003	0.00003
	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00004	0.00004	0.00004
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00004	0.00004	0.00004
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00004	0.00004	0.00004
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	-0.00017	-0.00017	-0.00015
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00000	0.00000	0.00001
	(!AN * !C * D * Y)	0.00019	0.00020	0.00020
	(!AN * !C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * !D * Y)	-0.00000	0.00000	0.00002
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * C * D * Y)	0.00014	0.00014	0.00014
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	0.00014	0.00014	0.00014
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00014	0.00014	0.00014
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	0.00014	0.00014	0.00014
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!AN * C * !D * Y)	0.00017	0.00018	0.00019
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	-0.00018	-0.00017	-0.00016
	(!AN * !C * D * Y)	0.00017	0.00017	0.00018
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * !C * D * Y)	-0.00019	-0.00018	-0.00016
	(!AN * !C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !D * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * B * D * Y)	-0.00016	-0.00016	-0.00016
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00001	0.00002	0.00003
	(AN * B * D * Y)	0.00007	0.00007	0.00008
	(AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00004	0.00004	0.00004
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00016	-0.00015	-0.00015
	(!AN * B * !D * Y)	-0.00000	-0.00000	0.00000
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * B * D * Y)	0.00016	0.00016	0.00016
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00003	-0.00002	-0.00001
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * !D * Y)	0.00016	0.00017	0.00017
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00004	-0.00004	-0.00003
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00016	0.00017	0.00018
	(!AN * B * !D * Y)	-0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * B * C * Y)	-0.00024	-0.00024	-0.00024
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00001	0.00002	0.00002
	(AN * B * C * Y)	0.00007	0.00008	0.00008
	(!C * Y)	-0.00024	-0.00024	-0.00024
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00001	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00008
	(!B * C * Y)	-0.00024	-0.00023	-0.00019
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

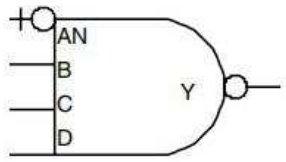
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7L	(AN * B * C * Y)	0.00024	0.00024	0.00024
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00024	0.00024	0.00024
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00001
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00024	0.00024	0.00024
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	-0.00008	-0.00007	-0.00007

NAND4BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1H7L	0.00085	0.00077	0.00078	0.00090	0.03041

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1H7L	0.00000	0.96251	2.38348

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7L	AN->Y (RR)	0.03088	0.09810	0.25714
	B->Y (FR)	0.01834	0.11773	0.46014
	C->Y (FR)	0.01705	0.11495	0.45747
	D->Y (FR)	0.01593	0.11250	0.45601

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7L	AN->Y (FF)	0.05055	0.19272	0.55168
	B->Y (RF)	0.03224	0.16795	0.57339
	C->Y (RF)	0.02977	0.17123	0.60727
	D->Y (RF)	0.02698	0.16733	0.60104

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7L	AN	0.00121	0.00148	0.00245
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00013	0.00013	0.00013
	AN	0.00100	0.00128	0.00225
	B	0.00111	0.00128	0.00220
	B	-0.00009	-0.00009	-0.00008
	B	0.00010	0.00010	0.00010
	B	-0.00004	0.00013	0.00104
	C	0.00093	0.00110	0.00201
	C	-0.00009	-0.00009	-0.00007
	C	0.00006	0.00006	0.00006
	C	-0.00004	0.00013	0.00103
	D	0.00081	0.00100	0.00204
	D	-0.00009	-0.00009	-0.00008
	D	0.00001	0.00002	0.00002
	D	-0.00004	0.00015	0.00117

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7L	AN	0.00093	0.00122	0.00222
	AN	0.00007	0.00007	0.00007
	AN	-0.00013	-0.00013	-0.00013
	AN	0.00116	0.00146	0.00245
	B	-0.00007	0.00004	0.00072
	B	0.00008	0.00009	0.00009
	B	-0.00010	-0.00010	-0.00010
	B	0.00112	0.00122	0.00191
	C	-0.00002	0.00009	0.00080
	C	0.00008	0.00009	0.00009
	C	-0.00006	-0.00006	-0.00006
	C	0.00096	0.00106	0.00178
	D	-0.00003	0.00012	0.00099
	D	0.00008	0.00009	0.00009
	D	-0.00002	-0.00002	-0.00001
	D	0.00083	0.00097	0.00186

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00008	0.00035	0.00125
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00079	0.00105	0.00195
	(B * !C * !D * Y)	0.00008	0.00034	0.00125
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00078	0.00104	0.00195
	(!B * !D * Y)	0.00008	0.00034	0.00125
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00077	0.00103	0.00194
	(!B * !C * D * Y)	0.00008	0.00034	0.00125
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00077	0.00103	0.00194

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00074	0.00104	0.00203
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00036	0.00135
	(B * !C * !D * Y)	0.00074	0.00104	0.00203
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00005	0.00034	0.00134
	(!B * !D * Y)	0.00074	0.00104	0.00203
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00006	0.00035	0.00135
	(!B * !C * D * Y)	0.00074	0.00104	0.00203
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00006	0.00035	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * C * D * Y)	-0.00017	-0.00017	-0.00017
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00003	0.00003	0.00003
	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00004	0.00004	0.00004
	(AN * C * !D * Y)	0.00011	0.00012	0.00012
	(AN * !C * D * Y)	-0.00017	-0.00017	-0.00017
	(AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00004	0.00004	0.00004
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00017	-0.00017	-0.00017
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00004	0.00005	0.00004
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00021	-0.00021	-0.00020
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	-0.00021	-0.00021	-0.00020
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * !D * Y)	-0.00000	0.00002	0.00018
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00003
	(!AN * !C * !D * Y)	0.00018	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * C * D * Y)	0.00017	0.00017	0.00017
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	0.00017	0.00017	0.00017
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00011
	(AN * !C * D * Y)	0.00017	0.00017	0.00017
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	0.00017	0.00017	0.00017
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00004	-0.00005	-0.00004
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!AN * C * !D * Y)	0.00021	0.00021	0.00023
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	-0.00019	-0.00018	-0.00016
	(!AN * !C * D * Y)	0.00021	0.00021	0.00022
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	-0.00019	-0.00018	-0.00017
	(!AN * !C * !D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * B * D * Y)	-0.00017	-0.00017	-0.00016
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00003	0.00003	0.00003
	(AN * B * D * Y)	0.00007	0.00007	0.00007
	(AN * B * !D * Y)	-0.00017	-0.00017	-0.00017
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00004	0.00005	0.00005
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00017	-0.00017	-0.00017
	(!B * D * Y)	-0.00000	0.00002	0.00012
	(!B * D * Y)	0.00003	0.00003	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	-0.00017	-0.00017	-0.00017
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00017	-0.00016	-0.00016
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * B * D * Y)	0.00017	0.00017	0.00017
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * !D * Y)	0.00017	0.00018	0.00018
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00005	-0.00005	-0.00004
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00017	0.00017	0.00017
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00017	0.00017	0.00017
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00017	0.00018	0.00019
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * B * C * Y)	-0.00027	-0.00026	-0.00026
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00001	0.00002	0.00002
	(AN * B * C * Y)	0.00007	0.00007	0.00007
	(!C * Y)	-0.00027	-0.00027	-0.00026
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00003
	(!C * Y)	0.00006	0.00006	0.00007
	(!B * C * Y)	-0.00027	-0.00027	-0.00026
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

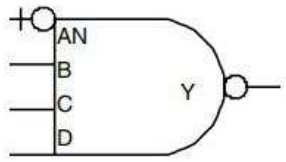
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7L	(AN * B * C * Y)	0.00026	0.00026	0.00027
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00027	0.00027	0.00027
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00006	-0.00006
	(!B * C * Y)	0.00027	0.00027	0.00027
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	-0.00007	-0.00007	-0.00006

NAND4BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1P4H7L	0.00086	0.00085	0.00086	0.00098	0.03518

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1P4H7L	0.00000	0.99604	2.51984

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7L	AN->Y (RR)	0.03048	0.09925	0.26179
	B->Y (FR)	0.01739	0.11776	0.46447
	C->Y (FR)	0.01616	0.11502	0.46216
	D->Y (FR)	0.01493	0.11246	0.46034

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7L	AN->Y (FF)	0.04915	0.19265	0.55452
	B->Y (RF)	0.02996	0.16623	0.57591
	C->Y (RF)	0.02763	0.16954	0.60701
	D->Y (RF)	0.02470	0.16551	0.60204

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	AN	0.00132	0.00161	0.00259
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00015	0.00015	0.00015
	AN	0.00104	0.00131	0.00229
	B	0.00120	0.00140	0.00245
	B	-0.00010	-0.00010	-0.00009
	B	0.00012	0.00012	0.00015
	B	-0.00007	0.00014	0.00118
	C	0.00100	0.00120	0.00225
	C	-0.00010	-0.00010	-0.00010
	C	0.00005	0.00007	0.00009
	C	-0.00005	0.00016	0.00119
	D	0.00087	0.00108	0.00227
	D	-0.00010	-0.00010	-0.00009
	D	0.00000	0.00002	0.00003
	D	-0.00005	0.00016	0.00133

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	AN	0.00096	0.00126	0.00224
	AN	0.00008	0.00009	0.00009
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00129	0.00159	0.00258
	B	-0.00006	0.00005	0.00084
	B	0.00010	0.00010	0.00010
	B	-0.00013	-0.00012	-0.00012
	B	0.00122	0.00133	0.00213
	C	-0.00002	0.00010	0.00091
	C	0.00010	0.00010	0.00010
	C	-0.00007	-0.00007	-0.00005
	C	0.00103	0.00115	0.00198
	D	-0.00003	0.00013	0.00114
	D	0.00010	0.00010	0.00010
	D	-0.00002	-0.00002	0.00000
	D	0.00088	0.00105	0.00208

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00011	0.00037	0.00127
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00081	0.00106	0.00196
	(B * !C * !D * Y)	0.00010	0.00036	0.00126
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00080	0.00106	0.00195
	(!B * !D * Y)	0.00010	0.00036	0.00126
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00079	0.00105	0.00195
	(!B * !C * D * Y)	0.00010	0.00036	0.00126
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00079	0.00105	0.00195

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00076	0.00105	0.00203
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00008	0.00037	0.00135
	(B * !C * !D * Y)	0.00075	0.00104	0.00203
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	0.00006	0.00036	0.00134
	(!B * !D * Y)	0.00075	0.00104	0.00203
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00008	0.00037	0.00135
	(!B * !C * D * Y)	0.00075	0.00104	0.00203
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00008	0.00037	0.00135

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * C * D * Y)	-0.00018	-0.00018	-0.00018
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	-0.00019	-0.00018	-0.00018
	(AN * C * !D * Y)	-0.00000	0.00000	0.00003
	(AN * C * !D * Y)	0.00005	0.00005	0.00005
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(AN * !C * D * Y)	-0.00000	-0.00000	0.00000
	(AN * !C * D * Y)	0.00005	0.00005	0.00005
	(AN * !C * D * Y)	0.00011	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00005	0.00005	0.00005
	(AN * !C * !D * Y)	0.00011	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00022	-0.00021	-0.00021
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00000	0.00000	0.00001
	(!AN * C * !D * Y)	0.00022	0.00022	0.00022
	(!AN * !C * D * Y)	-0.00022	-0.00021	-0.00021
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	0.00022	0.00022	0.00022
	(!AN * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * C * D * Y)	0.00018	0.00018	0.00018
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00003
	(AN * C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00018	0.00018	0.00019
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00018	0.00018	0.00018
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00011
	(AN * !C * !D * Y)	0.00018	0.00018	0.00018
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00011
	(!AN * C * !D * Y)	0.00022	0.00023	0.00024
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * C * !D * Y)	-0.00020	-0.00019	-0.00016
	(!AN * !C * D * Y)	0.00022	0.00022	0.00023
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	-0.00020	-0.00019	-0.00018
	(!AN * !C * !D * Y)	0.00022	0.00022	0.00022
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * B * D * Y)	-0.00019	-0.00019	-0.00018
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00003	0.00004	0.00005
	(AN * B * D * Y)	0.00005	0.00006	0.00006
	(AN * B * !D * Y)	-0.00019	-0.00019	-0.00019
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00005	0.00005	0.00005
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00019	-0.00019	-0.00019
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00019	-0.00019	-0.00019
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00019	-0.00019	-0.00019
	(!AN * B * !D * Y)	-0.00000	-0.00000	0.00000
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * B * D * Y)	0.00019	0.00019	0.00020
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00005
	(AN * B * !D * Y)	0.00019	0.00020	0.00021
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00006
	(!B * D * Y)	0.00019	0.00019	0.00019
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00003	-0.00003
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00019	0.00019	0.00019
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00019	0.00020	0.00022
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * B * C * Y)	-0.00029	-0.00029	-0.00028
	(AN * B * C * Y)	-0.00000	-0.00000	0.00000
	(AN * B * C * Y)	0.00002	0.00002	0.00002
	(AN * B * C * Y)	0.00007	0.00007	0.00007
	(!C * Y)	-0.00029	-0.00029	-0.00029
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00029	-0.00029	-0.00028
	(!B * C * Y)	-0.00000	-0.00000	0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

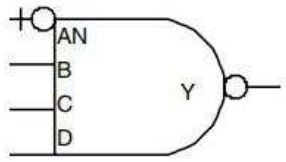
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7L	(AN * B * C * Y)	0.00028	0.00029	0.00029
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00029	0.00029	0.00029
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00006
	(!B * C * Y)	0.00028	0.00029	0.00029
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00006

NAND4BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX2H7L	0.00122	0.00098	0.00099	0.00110	0.04265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX2H7L	0.00000	1.38026	3.30781

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7L	AN->Y (RR)	0.02584	0.09246	0.25319
	B->Y (FR)	0.01657	0.11870	0.47168
	C->Y (FR)	0.01540	0.11601	0.46914
	D->Y (FR)	0.01411	0.11343	0.46808

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7L	AN->Y (FF)	0.04222	0.18398	0.54393
	B->Y (RF)	0.02775	0.16436	0.57608
	C->Y (RF)	0.02553	0.16775	0.60789
	D->Y (RF)	0.02255	0.16371	0.60316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7L	AN	0.00149	0.00195	0.00355
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00017	0.00017	0.00017
	AN	0.00134	0.00180	0.00341
	B	0.00139	0.00163	0.00289
	B	-0.00012	-0.00012	-0.00012
	B	0.00014	0.00014	0.00015
	B	-0.00006	0.00017	0.00141
	C	0.00115	0.00139	0.00264
	C	-0.00012	-0.00012	-0.00012
	C	0.00009	0.00009	0.00016
	C	-0.00009	0.00018	0.00141
	D	0.00100	0.00125	0.00267
	D	-0.00012	-0.00012	-0.00011
	D	0.00001	0.00003	0.00003
	D	-0.00006	0.00019	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7L	AN	0.00128	0.00179	0.00348
	AN	0.00009	0.00009	0.00010
	AN	-0.00017	-0.00017	-0.00017
	AN	0.00146	0.00198	0.00368
	B	-0.00010	0.00003	0.00099
	B	0.00012	0.00012	0.00012
	B	-0.00015	-0.00014	-0.00014
	B	0.00138	0.00153	0.00250
	C	-0.00005	0.00010	0.00109
	C	0.00012	0.00012	0.00012
	C	-0.00009	-0.00009	-0.00009
	C	0.00117	0.00132	0.00233
	D	-0.00005	0.00014	0.00135
	D	0.00012	0.00012	0.00012
	D	-0.00003	-0.00003	-0.00001
	D	0.00099	0.00120	0.00243

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00052	0.00205
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00109	0.00154	0.00306
	(B * !C * !D * Y)	0.00006	0.00051	0.00205
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	0.00108	0.00153	0.00306
	(!B * !D * Y)	0.00006	0.00052	0.00205
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00107	0.00152	0.00305
	(!B * !C * D * Y)	0.00006	0.00052	0.00205
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00107	0.00152	0.00305

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00106	0.00158	0.00327
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00007	0.00058	0.00227
	(B * !C * !D * Y)	0.00106	0.00157	0.00326
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	0.00005	0.00056	0.00225
	(!B * !D * Y)	0.00105	0.00157	0.00327
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00006	0.00058	0.00227
	(!B * !C * D * Y)	0.00105	0.00157	0.00327
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	0.00006	0.00058	0.00227

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * C * D * Y)	-0.00021	-0.00021	-0.00021
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	0.00013	0.00013	0.00013
	(AN * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00006	0.00006	0.00006
	(AN * C * !D * Y)	0.00013	0.00013	0.00013
	(AN * !C * D * Y)	-0.00022	-0.00021	-0.00021
	(AN * !C * D * Y)	-0.00000	-0.00000	0.00000
	(AN * !C * D * Y)	0.00006	0.00006	0.00006
	(AN * !C * D * Y)	0.00013	0.00013	0.00013
	(AN * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00006	0.00006	0.00006
	(AN * !C * !D * Y)	0.00013	0.00013	0.00013
	(!AN * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * C * !D * Y)	0.00024	0.00024	0.00024
	(!AN * !C * D * Y)	-0.00027	-0.00026	-0.00026
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	0.00024	0.00024	0.00024
	(!AN * !C * !D * Y)	-0.00027	-0.00027	-0.00026
	(!AN * !C * !D * Y)	-0.00000	-0.00000	0.00001
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * C * D * Y)	0.00021	0.00021	0.00022
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * !D * Y)	0.00021	0.00022	0.00022
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * D * Y)	0.00021	0.00021	0.00022
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * !D * Y)	0.00021	0.00021	0.00021
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!AN * C * !D * Y)	0.00027	0.00028	0.00029
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !D * Y)	-0.00022	-0.00021	-0.00018
	(!AN * !C * D * Y)	0.00027	0.00027	0.00029
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	-0.00023	-0.00022	-0.00021
	(!AN * !C * !D * Y)	0.00027	0.00027	0.00027
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * B * D * Y)	-0.00022	-0.00022	-0.00022
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00003	0.00004	0.00004
	(AN * B * D * Y)	0.00006	0.00007	0.00007
	(AN * B * !D * Y)	-0.00023	-0.00022	-0.00022
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00006	0.00006	0.00006
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!AN * B * !D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * B * D * Y)	0.00023	0.00023	0.00023
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00004	-0.00004	-0.00003
	(AN * B * D * Y)	-0.00007	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00023	0.00024	0.00025
	(AN * B * !D * Y)	0.00000	0.00000	0.00001
	(AN * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00022	0.00022	0.00023
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00023	0.00023	0.00023
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00023	0.00024	0.00026
	(!AN * B * !D * Y)	0.00000	0.00000	0.00001
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * B * C * Y)	-0.00034	-0.00033	-0.00033
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00003	0.00003	0.00003
	(AN * B * C * Y)	0.00006	0.00007	0.00007
	(!C * Y)	-0.00033	-0.00033	-0.00033
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00033	-0.00033	-0.00033
	(!B * C * Y)	-0.00000	-0.00000	0.00000
	(!B * C * Y)	0.00002	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

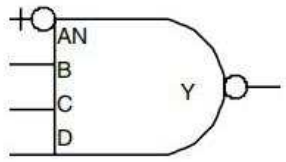
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7L	(AN * B * C * Y)	0.00033	0.00034	0.00034
	(AN * B * C * Y)	0.00000	0.00000	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00006
	(!C * Y)	0.00033	0.00033	0.00034
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00033	0.00033	0.00034
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00003	-0.00003	-0.00002
	(!B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX3H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX3H7L	0.00087	0.00164	0.00167	0.00170	0.06324

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX3H7L	0.00000	1.29511	3.79016

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7L	AN->Y (RR)	0.03662	0.11120	0.28132
	B->Y (FR)	0.01758	0.11752	0.46192
	C->Y (FR)	0.01614	0.11402	0.45821
	D->Y (FR)	0.01408	0.11015	0.45534

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7L	AN->Y (FF)	0.05940	0.20975	0.58454
	B->Y (RF)	0.03152	0.16792	0.57615
	C->Y (RF)	0.02786	0.16950	0.60658
	D->Y (RF)	0.02248	0.16357	0.60175

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7L	AN	0.00300	0.00329	0.00429
	AN	-0.00017	-0.00017	-0.00017
	AN	0.00028	0.00029	0.00029
	AN	0.00171	0.00197	0.00297
	B	0.00253	0.00292	0.00483
	B	-0.00018	-0.00018	-0.00016
	B	0.00018	0.00022	0.00022
	B	0.00003	0.00038	0.00227
	C	0.00216	0.00250	0.00441
	C	-0.00018	-0.00018	-0.00017
	C	0.00008	0.00013	0.00013
	C	0.00001	0.00037	0.00226
	D	0.00175	0.00213	0.00435
	D	-0.00018	-0.00018	-0.00017
	D	0.00001	0.00004	0.00008
	D	0.00002	0.00042	0.00260

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7L	AN	0.00144	0.00171	0.00262
	AN	0.00017	0.00017	0.00017
	AN	-0.00029	-0.00029	-0.00028
	AN	0.00285	0.00314	0.00404
	B	-0.00008	0.00012	0.00153
	B	0.00018	0.00018	0.00018
	B	-0.00022	-0.00022	-0.00018
	B	0.00251	0.00272	0.00416
	C	-0.00006	0.00016	0.00168
	C	0.00018	0.00018	0.00018
	C	-0.00013	-0.00013	-0.00008
	C	0.00211	0.00232	0.00386
	D	-0.00006	0.00025	0.00216
	D	0.00018	0.00018	0.00019
	D	-0.00004	-0.00004	-0.00001
	D	0.00164	0.00196	0.00390

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00027	0.00049	0.00131
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00102	0.00124	0.00204
	(B * !C * !D * Y)	0.00025	0.00048	0.00130
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * !D * Y)	0.00100	0.00122	0.00203
	(!B * !D * Y)	0.00025	0.00048	0.00130
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * Y)	0.00097	0.00120	0.00201
	(!B * !C * D * Y)	0.00025	0.00048	0.00130
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00097	0.00120	0.00201

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00103	0.00128	0.00218
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00033	0.00058	0.00148
	(B * !C * !D * Y)	0.00102	0.00128	0.00218
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00003	0.00004	0.00004
	(B * !C * !D * Y)	0.00029	0.00055	0.00146
	(!B * !D * Y)	0.00102	0.00128	0.00218
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00002	0.00003	0.00003
	(!B * !D * Y)	0.00032	0.00058	0.00148
	(!B * !C * D * Y)	0.00102	0.00128	0.00218
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00002	0.00003	0.00003
	(!B * !C * D * Y)	0.00032	0.00058	0.00148

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * C * D * Y)	-0.00036	-0.00036	-0.00035
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00006	0.00006	0.00006
	(AN * C * D * Y)	0.00021	0.00021	0.00022
	(AN * C * !D * Y)	-0.00037	-0.00037	-0.00036
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00008	0.00009	0.00009
	(AN * C * !D * Y)	0.00019	0.00019	0.00020
	(AN * !C * D * Y)	-0.00036	-0.00036	-0.00036
	(AN * !C * D * Y)	-0.00001	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00008	0.00008	0.00008
	(AN * !C * D * Y)	0.00022	0.00022	0.00022
	(AN * !C * !D * Y)	-0.00036	-0.00036	-0.00036
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00009	0.00009	0.00009
	(AN * !C * !D * Y)	0.00022	0.00022	0.00022
	(!AN * C * !D * Y)	-0.00036	-0.00036	-0.00035
	(!AN * C * !D * Y)	-0.00001	-0.00000	0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00048	0.00049	0.00049
	(!AN * !C * D * Y)	-0.00036	-0.00036	-0.00035
	(!AN * !C * D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00049	0.00049	0.00050
	(!AN * !C * !D * Y)	-0.00036	-0.00036	-0.00035
	(!AN * !C * !D * Y)	-0.00001	-0.00000	0.00000
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00046	0.00047	0.00047

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * C * D * Y)	0.00036	0.00036	0.00036
	(AN * C * D * Y)	0.00000	0.00001	0.00001
	(AN * C * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * D * Y)	-0.00021	-0.00021	-0.00021
	(AN * C * !D * Y)	0.00037	0.00037	0.00038
	(AN * C * !D * Y)	0.00000	0.00001	0.00001
	(AN * C * !D * Y)	-0.00009	-0.00009	-0.00008
	(AN * C * !D * Y)	-0.00020	-0.00019	-0.00019
	(AN * !C * D * Y)	0.00036	0.00036	0.00037
	(AN * !C * D * Y)	0.00000	0.00001	0.00001
	(AN * !C * D * Y)	-0.00008	-0.00008	-0.00008
	(AN * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(AN * !C * !D * Y)	0.00036	0.00036	0.00036
	(AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00009	-0.00009	-0.00009
	(AN * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!AN * C * !D * Y)	0.00037	0.00038	0.00041
	(!AN * C * !D * Y)	0.00000	0.00000	0.00001
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00046	-0.00042	-0.00036
	(!AN * !C * D * Y)	0.00036	0.00037	0.00039
	(!AN * !C * D * Y)	0.00000	0.00001	0.00003
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00047	-0.00044	-0.00040
	(!AN * !C * !D * Y)	0.00036	0.00036	0.00037
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !D * Y)	-0.00047	-0.00045	-0.00042

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * B * D * Y)	-0.00038	-0.00037	-0.00036
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00006	0.00006	0.00007
	(AN * B * D * Y)	0.00013	0.00014	0.00015
	(AN * B * !D * Y)	-0.00037	-0.00037	-0.00037
	(AN * B * !D * Y)	-0.00001	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00009	0.00009	0.00009
	(AN * B * !D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	-0.00038	-0.00038	-0.00037
	(!B * D * Y)	-0.00000	-0.00000	0.00000
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * D * Y)	0.00013	0.00013	0.00013
	(!B * !D * Y)	-0.00038	-0.00038	-0.00037
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00008	0.00008	0.00008
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!AN * B * !D * Y)	-0.00035	-0.00034	-0.00034
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00050	0.00050	0.00050

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * B * D * Y)	0.00037	0.00038	0.00038
	(AN * B * D * Y)	0.00000	0.00001	0.00001
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * D * Y)	-0.00014	-0.00014	-0.00013
	(AN * B * !D * Y)	0.00038	0.00040	0.00042
	(AN * B * !D * Y)	0.00000	0.00001	0.00001
	(AN * B * !D * Y)	-0.00009	-0.00009	-0.00008
	(AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	0.00038	0.00038	0.00038
	(!B * D * Y)	0.00000	0.00000	0.00001
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	0.00039	0.00040	0.00040
	(!B * !D * Y)	0.00000	0.00000	0.00001
	(!B * !D * Y)	-0.00008	-0.00008	-0.00008
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!AN * B * !D * Y)	0.00036	0.00039	0.00045
	(!AN * B * !D * Y)	0.00000	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00046	-0.00043	-0.00038

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * B * C * Y)	-0.00053	-0.00052	-0.00051
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00004	0.00004	0.00005
	(AN * B * C * Y)	0.00011	0.00012	0.00012
	(!C * Y)	-0.00053	-0.00053	-0.00053
	(!C * Y)	-0.00001	-0.00000	-0.00000
	(!C * Y)	0.00003	0.00004	0.00005
	(!C * Y)	0.00010	0.00010	0.00011
	(!B * C * Y)	-0.00053	-0.00053	-0.00052
	(!B * C * Y)	-0.00001	-0.00000	-0.00000
	(!B * C * Y)	0.00004	0.00004	0.00005
	(!B * C * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for D falling (conditional):

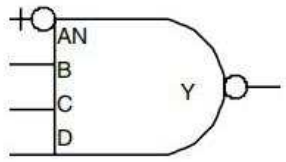
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7L	(AN * B * C * Y)	0.00051	0.00052	0.00053
	(AN * B * C * Y)	0.00000	0.00000	0.00001
	(AN * B * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * C * Y)	-0.00012	-0.00012	-0.00011
	(!C * Y)	0.00053	0.00053	0.00053
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00004	-0.00004	-0.00003
	(!C * Y)	-0.00010	-0.00010	-0.00010
	(!B * C * Y)	0.00053	0.00053	0.00053
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00011	-0.00011	-0.00010

NAND4BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX4H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX4H7L	0.00104	0.00202	0.00205	0.00208	0.07971

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX4H7L	0.00000	1.64994	4.75949

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7L	AN->Y (RR)	0.03174	0.10190	0.26248
	B->Y (FR)	0.01704	0.11577	0.45756
	C->Y (FR)	0.01565	0.11243	0.45442
	D->Y (FR)	0.01368	0.10868	0.45135

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7L	AN->Y (FF)	0.05270	0.19839	0.56166
	B->Y (RF)	0.03016	0.16329	0.56578
	C->Y (RF)	0.02681	0.16515	0.59429
	D->Y (RF)	0.02172	0.15979	0.59243

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7L	AN	0.00379	0.00415	0.00555
	AN	-0.00022	-0.00022	-0.00021
	AN	0.00036	0.00037	0.00038
	AN	0.00208	0.00245	0.00384
	B	0.00321	0.00367	0.00609
	B	-0.00024	-0.00024	-0.00024
	B	0.00028	0.00028	0.00029
	B	0.00004	0.00050	0.00289
	C	0.00269	0.00317	0.00560
	C	-0.00024	-0.00024	-0.00022
	C	0.00015	0.00018	0.00025
	C	-0.00001	0.00047	0.00286
	D	0.00223	0.00272	0.00553
	D	-0.00024	-0.00024	-0.00023
	D	0.00002	0.00005	0.00007
	D	0.00002	0.00053	0.00329

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7L	AN	0.00176	0.00216	0.00349
	AN	0.00021	0.00022	0.00022
	AN	-0.00038	-0.00037	-0.00036
	AN	0.00358	0.00399	0.00532
	B	-0.00010	0.00016	0.00197
	B	0.00024	0.00024	0.00026
	B	-0.00029	-0.00028	-0.00028
	B	0.00316	0.00342	0.00524
	C	-0.00007	0.00021	0.00214
	C	0.00023	0.00024	0.00024
	C	-0.00018	-0.00017	-0.00015
	C	0.00269	0.00295	0.00491
	D	-0.00007	0.00032	0.00274
	D	0.00023	0.00024	0.00024
	D	-0.00006	-0.00005	-0.00002
	D	0.00214	0.00252	0.00497

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00035	0.00069	0.00187
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00004	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00126	0.00159	0.00276
	(B * !C * !D * Y)	0.00033	0.00067	0.00187
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00006	-0.00005	-0.00005
	(B * !C * !D * Y)	0.00124	0.00157	0.00274
	(!B * !D * Y)	0.00033	0.00067	0.00187
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00003
	(!B * !D * Y)	0.00120	0.00154	0.00273
	(!B * !C * D * Y)	0.00033	0.00067	0.00187
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00120	0.00154	0.00273

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00121	0.00160	0.00292
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00004	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00036	0.00074	0.00207
	(B * !C * !D * Y)	0.00119	0.00159	0.00291
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00005	0.00005	0.00006
	(B * !C * !D * Y)	0.00033	0.00071	0.00203
	(!B * !D * Y)	0.00120	0.00159	0.00291
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00003	0.00004	0.00004
	(!B * !D * Y)	0.00036	0.00075	0.00207
	(!B * !C * D * Y)	0.00120	0.00159	0.00291
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	0.00036	0.00075	0.00207

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * C * D * Y)	-0.00048	-0.00048	-0.00048
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00008	0.00008	0.00008
	(AN * C * D * Y)	0.00021	0.00021	0.00021
	(AN * C * !D * Y)	-0.00049	-0.00049	-0.00047
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	0.00019	0.00019	0.00019
	(AN * !C * D * Y)	-0.00049	-0.00048	-0.00048
	(AN * !C * D * Y)	-0.00001	-0.00001	0.00000
	(AN * !C * D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	0.00021	0.00022	0.00022
	(AN * !C * !D * Y)	-0.00049	-0.00048	-0.00048
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * !D * Y)	0.00021	0.00022	0.00022
	(!AN * C * !D * Y)	-0.00049	-0.00048	-0.00047
	(!AN * C * !D * Y)	-0.00001	-0.00000	0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00053	0.00054	0.00055
	(!AN * !C * D * Y)	-0.00049	-0.00048	-0.00048
	(!AN * !C * D * Y)	-0.00001	-0.00000	0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00054	0.00055	0.00055
	(!AN * !C * !D * Y)	-0.00049	-0.00049	-0.00048
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * C * D * Y)	0.00048	0.00049	0.00049
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00008	-0.00008	-0.00008
	(AN * C * D * Y)	-0.00021	-0.00021	-0.00020
	(AN * C * !D * Y)	0.00049	0.00049	0.00050
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	-0.00019	-0.00019	-0.00019
	(AN * !C * D * Y)	0.00048	0.00049	0.00049
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	-0.00022	-0.00022	-0.00021
	(AN * !C * !D * Y)	0.00048	0.00049	0.00049
	(AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * !D * Y)	-0.00022	-0.00022	-0.00021
	(!AN * C * !D * Y)	0.00050	0.00051	0.00055
	(!AN * C * !D * Y)	0.00000	0.00000	0.00001
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00051	-0.00047	-0.00040
	(!AN * !C * D * Y)	0.00049	0.00050	0.00053
	(!AN * !C * D * Y)	0.00000	0.00000	0.00001
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00052	-0.00049	-0.00044
	(!AN * !C * !D * Y)	0.00049	0.00049	0.00049
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !D * Y)	-0.00052	-0.00050	-0.00046

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * B * D * Y)	-0.00049	-0.00049	-0.00049
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * D * Y)	0.00008	0.00008	0.00009
	(AN * B * D * Y)	0.00016	0.00017	0.00017
	(AN * B * !D * Y)	-0.00049	-0.00049	-0.00048
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * !D * Y)	0.00011	0.00011	0.00011
	(AN * B * !D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	-0.00050	-0.00050	-0.00049
	(!B * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * D * Y)	0.00007	0.00008	0.00008
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	-0.00050	-0.00050	-0.00049
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00011	0.00011	0.00011
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!AN * B * !D * Y)	-0.00047	-0.00047	-0.00046
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00058	0.00059	0.00059

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * B * D * Y)	0.00049	0.00050	0.00050
	(AN * B * D * Y)	0.00000	0.00001	0.00001
	(AN * B * D * Y)	-0.00009	-0.00008	-0.00008
	(AN * B * D * Y)	-0.00016	-0.00016	-0.00015
	(AN * B * !D * Y)	0.00050	0.00053	0.00056
	(AN * B * !D * Y)	0.00000	0.00001	0.00001
	(AN * B * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	0.00049	0.00050	0.00051
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00008	-0.00008	-0.00007
	(!B * D * Y)	-0.00015	-0.00015	-0.00014
	(!B * !D * Y)	0.00051	0.00052	0.00052
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!AN * B * !D * Y)	0.00048	0.00052	0.00058
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00054	-0.00051	-0.00046

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * B * C * Y)	-0.00066	-0.00066	-0.00065
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * C * Y)	0.00005	0.00005	0.00006
	(AN * B * C * Y)	0.00013	0.00013	0.00014
	(!C * Y)	-0.00067	-0.00066	-0.00066
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00006	0.00006	0.00006
	(!C * Y)	0.00011	0.00011	0.00011
	(!B * C * Y)	-0.00067	-0.00066	-0.00065
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00005	0.00005	0.00007
	(!B * C * Y)	0.00011	0.00012	0.00013

Passive power(pJ) for D falling (conditional):

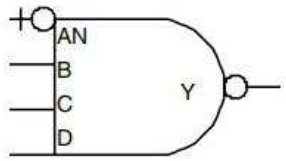
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7L	(AN * B * C * Y)	0.00065	0.00066	0.00067
	(AN * B * C * Y)	0.00000	0.00001	0.00001
	(AN * B * C * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * C * Y)	-0.00013	-0.00013	-0.00013
	(!C * Y)	0.00066	0.00067	0.00067
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00006	-0.00006	-0.00005
	(!C * Y)	-0.00011	-0.00011	-0.00011
	(!B * C * Y)	0.00067	0.00067	0.00067
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00005	-0.00005	-0.00005
	(!B * C * Y)	-0.00012	-0.00012	-0.00011

NAND4BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX6H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX6H7L	0.00119	0.00298	0.00305	0.00309	0.12394

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX6H7L	0.00000	2.17409	6.62959

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7L	AN->Y (RR)	0.03346	0.10848	0.27890
	B->Y (FR)	0.01611	0.11676	0.46587
	C->Y (FR)	0.01479	0.11351	0.46341
	D->Y (FR)	0.01275	0.10969	0.46014

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7L	AN->Y (FF)	0.05387	0.20603	0.58445
	B->Y (RF)	0.02815	0.16495	0.57718
	C->Y (RF)	0.02517	0.16751	0.60968
	D->Y (RF)	0.02001	0.16178	0.60435

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7L	AN	0.00555	0.00597	0.00766
	AN	-0.00033	-0.00033	-0.00032
	AN	0.00056	0.00056	0.00057
	AN	0.00276	0.00319	0.00489
	B	0.00456	0.00532	0.00903
	B	-0.00036	-0.00036	-0.00033
	B	0.00042	0.00043	0.00047
	B	-0.00009	0.00061	0.00427
	C	0.00387	0.00458	0.00830
	C	-0.00036	-0.00036	-0.00035
	C	0.00015	0.00026	0.00037
	C	-0.00014	0.00061	0.00426
	D	0.00314	0.00390	0.00820
	D	-0.00036	-0.00036	-0.00034
	D	0.00005	0.00009	0.00013
	D	-0.00011	0.00069	0.00494

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7L	AN	0.00244	0.00292	0.00440
	AN	0.00032	0.00033	0.00034
	AN	-0.00057	-0.00056	-0.00056
	AN	0.00537	0.00586	0.00737
	B	-0.00015	0.00026	0.00309
	B	0.00033	0.00036	0.00037
	B	-0.00045	-0.00043	-0.00042
	B	0.00471	0.00510	0.00796
	C	-0.00010	0.00034	0.00333
	C	0.00035	0.00036	0.00038
	C	-0.00027	-0.00025	-0.00015
	C	0.00395	0.00438	0.00740
	D	-0.00009	0.00051	0.00424
	D	0.00035	0.00036	0.00036
	D	-0.00008	-0.00008	-0.00005
	D	0.00312	0.00372	0.00751

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00057	0.00093	0.00225
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00004	0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00006	-0.00006	-0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00166	0.00202	0.00331
	(B * !C * !D * Y)	0.00055	0.00091	0.00225
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * !C * !D * Y)	0.00163	0.00199	0.00329
	(!B * !D * Y)	0.00054	0.00091	0.00225
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!B * !D * Y)	0.00158	0.00195	0.00326
	(!B * !C * D * Y)	0.00054	0.00091	0.00225
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	-0.00006	-0.00006	-0.00005
	(!B * !C * D * Y)	0.00158	0.00194	0.00326

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00163	0.00206	0.00353
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00004	-0.00004	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00006	0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00063	0.00105	0.00253
	(B * !C * !D * Y)	0.00162	0.00204	0.00352
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * !D * Y)	0.00007	0.00007	0.00008
	(B * !C * !D * Y)	0.00057	0.00100	0.00248
	(!B * !D * Y)	0.00162	0.00204	0.00353
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00005	0.00006	0.00006
	(!B * !D * Y)	0.00062	0.00105	0.00253
	(!B * !C * D * Y)	0.00162	0.00204	0.00353
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00003
	(!B * !C * D * Y)	0.00005	0.00006	0.00006
	(!B * !C * D * Y)	0.00062	0.00105	0.00253

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * C * D * Y)	-0.00069	-0.00069	-0.00069
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * D * Y)	0.00013	0.00013	0.00013
	(AN * C * D * Y)	0.00032	0.00032	0.00032
	(AN * C * !D * Y)	-0.00071	-0.00071	-0.00070
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00017	0.00017	0.00018
	(AN * C * !D * Y)	0.00029	0.00029	0.00029
	(AN * !C * D * Y)	-0.00070	-0.00069	-0.00069
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * D * Y)	0.00017	0.00017	0.00018
	(AN * !C * D * Y)	0.00032	0.00032	0.00033
	(AN * !C * !D * Y)	-0.00070	-0.00069	-0.00069
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00018	0.00018	0.00019
	(AN * !C * !D * Y)	0.00032	0.00033	0.00033
	(!AN * C * !D * Y)	-0.00073	-0.00072	-0.00072
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * C * !D * Y)	0.00082	0.00083	0.00083
	(!AN * !C * D * Y)	-0.00072	-0.00072	-0.00071
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00083	0.00084	0.00085
	(!AN * !C * !D * Y)	-0.00073	-0.00071	-0.00067
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !D * Y)	0.00003	0.00003	0.00003
	(!AN * !C * !D * Y)	0.00079	0.00080	0.00080

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * C * D * Y)	0.00070	0.00070	0.00070
	(AN * C * D * Y)	0.00000	0.00001	0.00001
	(AN * C * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * C * D * Y)	-0.00031	-0.00031	-0.00031
	(AN * C * !D * Y)	0.00071	0.00072	0.00072
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00018	-0.00017	-0.00017
	(AN * C * !D * Y)	-0.00029	-0.00029	-0.00028
	(AN * !C * D * Y)	0.00069	0.00070	0.00070
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00018	-0.00017	-0.00017
	(AN * !C * D * Y)	-0.00033	-0.00032	-0.00032
	(AN * !C * !D * Y)	0.00069	0.00070	0.00070
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00019	-0.00018	-0.00018
	(AN * !C * !D * Y)	-0.00033	-0.00033	-0.00032
	(!AN * C * !D * Y)	0.00073	0.00076	0.00082
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * C * !D * Y)	-0.00077	-0.00072	-0.00061
	(!AN * !C * D * Y)	0.00073	0.00074	0.00077
	(!AN * !C * D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00079	-0.00075	-0.00067
	(!AN * !C * !D * Y)	0.00072	0.00072	0.00073
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !D * Y)	-0.00079	-0.00076	-0.00071

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * B * D * Y)	-0.00072	-0.00072	-0.00071
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * D * Y)	0.00012	0.00013	0.00016
	(AN * B * D * Y)	0.00020	0.00021	0.00022
	(AN * B * !D * Y)	-0.00075	-0.00072	-0.00071
	(AN * B * !D * Y)	-0.00001	-0.00000	0.00004
	(AN * B * !D * Y)	0.00018	0.00018	0.00018
	(AN * B * !D * Y)	0.00023	0.00024	0.00024
	(!B * D * Y)	-0.00072	-0.00071	-0.00069
	(!B * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * D * Y)	0.00012	0.00013	0.00013
	(!B * D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	-0.00072	-0.00072	-0.00071
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00018	0.00018	0.00019
	(!B * !D * Y)	0.00017	0.00018	0.00019
	(!AN * B * !D * Y)	-0.00069	-0.00069	-0.00069
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00001	0.00001	0.00002
	(!AN * B * !D * Y)	0.00086	0.00086	0.00086

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * B * D * Y)	0.00072	0.00072	0.00073
	(AN * B * D * Y)	0.00000	0.00001	0.00001
	(AN * B * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * B * D * Y)	-0.00021	-0.00021	-0.00020
	(AN * B * !D * Y)	0.00073	0.00077	0.00078
	(AN * B * !D * Y)	0.00000	0.00001	0.00002
	(AN * B * !D * Y)	-0.00018	-0.00018	-0.00016
	(AN * B * !D * Y)	-0.00024	-0.00023	-0.00022
	(!B * D * Y)	0.00072	0.00072	0.00073
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00013	-0.00013	-0.00011
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	0.00073	0.00074	0.00074
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00018	-0.00018	-0.00017
	(!AN * B * !D * Y)	0.00072	0.00077	0.00084
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00079	-0.00074	-0.00065

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * B * C * Y)	-0.00096	-0.00096	-0.00095
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00007	0.00008	0.00011
	(AN * B * C * Y)	0.00017	0.00019	0.00020
	(!C * Y)	-0.00097	-0.00097	-0.00096
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00009	0.00009	0.00010
	(!C * Y)	0.00015	0.00016	0.00016
	(!B * C * Y)	-0.00097	-0.00096	-0.00093
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00008	0.00008	0.00008
	(!B * C * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for D falling (conditional):

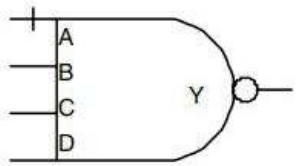
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7L	(AN * B * C * Y)	0.00095	0.00096	0.00097
	(AN * B * C * Y)	0.00001	0.00001	0.00002
	(AN * B * C * Y)	-0.00008	-0.00008	-0.00007
	(AN * B * C * Y)	-0.00019	-0.00019	-0.00017
	(!C * Y)	0.00096	0.00097	0.00097
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00008	-0.00008	-0.00008
	(!C * Y)	-0.00016	-0.00016	-0.00015
	(!B * C * Y)	0.00094	0.00096	0.00097
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00008	-0.00008	-0.00007
	(!B * C * Y)	-0.00017	-0.00016	-0.00016

NAND4X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P5H7L	0.00071	0.00067	0.00070	0.00078	0.02142

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P5H7L	0.00000	0.25688	1.09753

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7L	A->Y (FR)	0.02370	0.12164	0.44935
	B->Y (FR)	0.02223	0.11872	0.44630
	C->Y (FR)	0.02117	0.11635	0.44459
	D->Y (FR)	0.02006	0.11399	0.44245

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7L	A->Y (RF)	0.04231	0.16600	0.52517
	B->Y (RF)	0.03998	0.16992	0.55624
	C->Y (RF)	0.03827	0.17417	0.58864
	D->Y (RF)	0.03558	0.17024	0.58398

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	A	0.00116	0.00131	0.00202
	A	-0.00006	-0.00006	-0.00006
	A	0.00010	0.00011	0.00011
	A	0.00000	0.00013	0.00084
	B	0.00104	0.00118	0.00187
	B	-0.00006	-0.00006	-0.00006
	B	0.00006	0.00008	0.00008
	B	0.00003	0.00017	0.00086
	C	0.00095	0.00108	0.00177
	C	-0.00006	-0.00006	-0.00005
	C	0.00002	0.00005	0.00006
	C	0.00006	0.00019	0.00087
	D	0.00086	0.00100	0.00177
	D	-0.00006	-0.00006	-0.00006
	D	0.00000	0.00002	0.00014
	D	-0.00007	0.00018	0.00094

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	A	-0.00008	-0.00000	0.00049
	A	0.00006	0.00006	0.00006
	A	-0.00011	-0.00011	-0.00010
	A	0.00112	0.00120	0.00170
	B	-0.00007	0.00001	0.00051
	B	0.00006	0.00006	0.00006
	B	-0.00008	-0.00008	-0.00006
	B	0.00095	0.00103	0.00154
	C	-0.00007	0.00001	0.00052
	C	0.00006	0.00006	0.00006
	C	-0.00005	-0.00005	-0.00002
	C	0.00082	0.00090	0.00142
	D	-0.00008	0.00003	0.00067
	D	0.00006	0.00006	0.00006
	D	-0.00001	-0.00001	0.00000
	D	0.00074	0.00085	0.00150

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(B * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00020	0.00020	0.00020
	(B * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	0.00020	0.00020	0.00020
	(B * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	0.00019	0.00019	0.00019
	(!B * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	0.00019	0.00019	0.00020
	(!B * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00000	0.00001	0.00000
	(!B * !C * D * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(B * C * !D * Y)	0.00015	0.00015	0.00016
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00019	-0.00018	-0.00017
	(B * !C * D * Y)	0.00015	0.00015	0.00015
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	-0.00019	-0.00018	-0.00017
	(B * !C * !D * Y)	0.00015	0.00015	0.00015
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	-0.00019	-0.00018	-0.00017
	(!B * C * D * Y)	0.00015	0.00015	0.00015
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00019	-0.00019	-0.00018
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	-0.00019	-0.00019	-0.00018
	(!B * !C * D * Y)	0.00015	0.00015	0.00015
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00000	-0.00001	-0.00000
	(!B * !C * D * Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(A * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00018	0.00018	0.00019
	(A * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00018	0.00018	0.00019
	(A * !C * !D * Y)	-0.00013	-0.00012	-0.00012
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	0.00018	0.00018	0.00018
	(!A * C * D * Y)	-0.00013	-0.00013	-0.00012
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00013	-0.00013	-0.00012
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00003	0.00003	0.00003
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00013	-0.00013	-0.00012
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00003	0.00003	0.00003
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00013	-0.00013	-0.00012
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(A * C * !D * Y)	0.00013	0.00013	0.00014
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00017	-0.00016	-0.00015
	(A * !C * D * Y)	0.00013	0.00013	0.00013
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00018	-0.00017	-0.00016
	(A * !C * !D * Y)	0.00012	0.00013	0.00013
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	-0.00018	-0.00017	-0.00016
	(!A * C * D * Y)	0.00013	0.00013	0.00013
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00012	0.00013	0.00013
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00012	0.00013	0.00013
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(A * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00002	0.00002	0.00002
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00002	0.00002	0.00002
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00003	0.00003	0.00003
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(A * B * !D * Y)	0.00015	0.00016	0.00017
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	-0.00015	-0.00014	-0.00013
	(!B * D * Y)	0.00015	0.00015	0.00016
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00015	0.00015	0.00016
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00016	0.00016	0.00016
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(!C * Y)	-0.00023	-0.00022	-0.00022
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00023	-0.00022	-0.00022
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00002	0.00001
	(!B * C * Y)	0.00007	0.00007	0.00007
	(!A * B * C * Y)	-0.00023	-0.00022	-0.00022
	(!A * B * C * Y)	-0.00000	-0.00000	0.00000
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

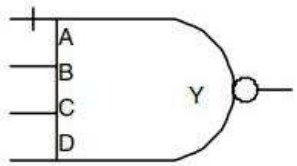
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7L	(!C * Y)	0.00022	0.00023	0.00023
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00022	0.00022	0.00023
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * Y)	0.00022	0.00022	0.00023
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P7H7L	0.00075	0.00071	0.00074	0.00082	0.02474

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P7H7L	0.00000	0.27546	1.17054

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7L	A->Y (FR)	0.02216	0.12124	0.45472
	B->Y (FR)	0.02078	0.11835	0.45177
	C->Y (FR)	0.01973	0.11596	0.44931
	D->Y (FR)	0.01852	0.11344	0.44781

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7L	A->Y (RF)	0.03888	0.16369	0.52721
	B->Y (RF)	0.03672	0.16767	0.55868
	C->Y (RF)	0.03497	0.17173	0.59045
	D->Y (RF)	0.03206	0.16764	0.58606

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	A	0.00124	0.00140	0.00220
	A	-0.00007	-0.00007	-0.00007
	A	0.00012	0.00012	0.00012
	A	-0.00001	0.00013	0.00092
	B	0.00109	0.00126	0.00204
	B	-0.00007	-0.00007	-0.00007
	B	0.00008	0.00009	0.00009
	B	0.00002	0.00016	0.00094
	C	0.00101	0.00115	0.00192
	C	-0.00007	-0.00007	-0.00007
	C	0.00003	0.00005	0.00011
	C	0.00001	0.00019	0.00095
	D	0.00090	0.00105	0.00192
	D	-0.00007	-0.00007	-0.00007
	D	0.00000	0.00002	0.00002
	D	0.00002	0.00018	0.00104

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	A	-0.00009	-0.00001	0.00055
	A	0.00007	0.00007	0.00007
	A	-0.00012	-0.00012	-0.00012
	A	0.00121	0.00130	0.00186
	B	-0.00008	0.00000	0.00057
	B	0.00007	0.00007	0.00007
	B	-0.00009	-0.00009	-0.00008
	B	0.00103	0.00112	0.00169
	C	-0.00008	0.00001	0.00059
	C	0.00007	0.00007	0.00007
	C	-0.00005	-0.00005	-0.00003
	C	0.00089	0.00097	0.00156
	D	-0.00009	0.00004	0.00076
	D	0.00007	0.00007	0.00007
	D	-0.00002	-0.00002	0.00000
	D	0.00079	0.00091	0.00165

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(B * C * !D * Y)	-0.00017	-0.00016	-0.00016
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00021	0.00021	0.00021
	(B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	0.00021	0.00021	0.00021
	(B * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00020	0.00020	0.00020
	(!B * C * D * Y)	-0.00017	-0.00016	-0.00016
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00021	0.00021	0.00021
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00020	0.00020	0.00021
	(!B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(B * C * !D * Y)	0.00017	0.00017	0.00017
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00020	-0.00019	-0.00018
	(B * !C * D * Y)	0.00016	0.00016	0.00017
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	-0.00020	-0.00019	-0.00018
	(B * !C * !D * Y)	0.00016	0.00016	0.00016
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00020	-0.00019	-0.00018
	(!B * C * D * Y)	0.00016	0.00016	0.00017
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00020	-0.00020	-0.00018
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00020	-0.00020	-0.00019
	(!B * !C * D * Y)	0.00016	0.00016	0.00017
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(A * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00019	0.00019	0.00020
	(A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00020	0.00020	0.00020
	(A * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00019	0.00019	0.00019
	(!A * C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00004	0.00004	0.00004
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00004	0.00004	0.00004
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(A * C * !D * Y)	0.00014	0.00014	0.00016
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00018	-0.00017	-0.00016
	(A * !C * D * Y)	0.00014	0.00014	0.00015
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00019	-0.00018	-0.00017
	(A * !C * !D * Y)	0.00014	0.00014	0.00014
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00019	-0.00018	-0.00017
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00014	0.00014	0.00014
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00014	0.00014	0.00014
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	0.00017	0.00017	0.00017
	(!B * D * Y)	-0.00017	-0.00016	-0.00016
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00017	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00017	-0.00016	-0.00016
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00002	0.00003	0.00003
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00017	-0.00016	-0.00016
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00004	0.00004	0.00004
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(A * B * !D * Y)	0.00017	0.00017	0.00018
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	-0.00016	-0.00015	-0.00014
	(!B * D * Y)	0.00017	0.00017	0.00017
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00017	0.00017	0.00017
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00017	0.00017	0.00017
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00017	0.00017	0.00018
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00004	-0.00004	-0.00003
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(!C * Y)	-0.00024	-0.00024	-0.00024
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00024	-0.00024	-0.00024
	(!B * C * Y)	-0.00000	-0.00000	0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00007
	(!A * B * C * Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * Y)	-0.00000	-0.00000	0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

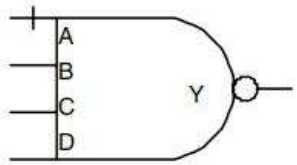
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7L	(!C * Y)	0.00024	0.00024	0.00024
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00024	0.00024	0.00024
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00006	-0.00006
	(!A * B * C * Y)	0.00024	0.00024	0.00024
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00007	-0.00006	-0.00006

NAND4X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1H7L	0.00082	0.00077	0.00081	0.00089	0.02946

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1H7L	0.00000	0.30602	1.29263

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7L	A->Y (FR)	0.01975	0.11886	0.45491
	B->Y (FR)	0.01855	0.11609	0.45239
	C->Y (FR)	0.01750	0.11358	0.45017
	D->Y (FR)	0.01625	0.11100	0.44826

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7L	A->Y (RF)	0.03461	0.16074	0.52965
	B->Y (RF)	0.03261	0.16466	0.56117
	C->Y (RF)	0.03071	0.16856	0.59400
	D->Y (RF)	0.02759	0.16427	0.58783

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7L	A	0.00132	0.00150	0.00244
	A	-0.00009	-0.00009	-0.00009
	A	0.00014	0.00014	0.00014
	A	-0.00007	0.00010	0.00102
	B	0.00116	0.00134	0.00226
	B	-0.00009	-0.00009	-0.00009
	B	0.00010	0.00010	0.00010
	B	-0.00004	0.00013	0.00104
	C	0.00105	0.00121	0.00212
	C	-0.00009	-0.00009	-0.00008
	C	0.00004	0.00006	0.00013
	C	-0.00005	0.00015	0.00105
	D	0.00092	0.00110	0.00213
	D	-0.00009	-0.00009	-0.00008
	D	0.00002	0.00002	0.00005
	D	-0.00004	0.00015	0.00117

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7L	A	-0.00011	-0.00001	0.00067
	A	0.00009	0.00009	0.00009
	A	-0.00014	-0.00014	-0.00014
	A	0.00134	0.00144	0.00212
	B	-0.00010	0.00000	0.00069
	B	0.00009	0.00009	0.00009
	B	-0.00010	-0.00010	-0.00010
	B	0.00112	0.00123	0.00192
	C	-0.00010	0.00001	0.00071
	C	0.00008	0.00009	0.00009
	C	-0.00006	-0.00006	-0.00004
	C	0.00097	0.00107	0.00178
	D	-0.00010	0.00004	0.00091
	D	0.00008	0.00009	0.00009
	D	-0.00002	-0.00002	-0.00002
	D	0.00085	0.00099	0.00187

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(B * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00022	0.00022	0.00022
	(B * !C * D * Y)	-0.00019	-0.00018	-0.00018
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	0.00022	0.00022	0.00022
	(B * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00021	0.00021	0.00021
	(!B * C * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00023	0.00023	0.00023
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(B * C * !D * Y)	0.00019	0.00019	0.00019
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00021	-0.00020	-0.00019
	(B * !C * D * Y)	0.00018	0.00018	0.00019
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	-0.00021	-0.00021	-0.00019
	(B * !C * !D * Y)	0.00018	0.00018	0.00019
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00021	-0.00021	-0.00019
	(!B * C * D * Y)	0.00018	0.00018	0.00019
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00022	-0.00021	-0.00019
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * D * Y)	0.00018	0.00018	0.00018
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(A * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00021	0.00021	0.00021
	(A * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00020	0.00020	0.00020
	(!A * C * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00004	0.00004	0.00004
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * D * Y)	-0.00000	-0.00000	0.00001
	(!A * !C * D * Y)	0.00004	0.00005	0.00005
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(A * C * !D * Y)	0.00016	0.00017	0.00018
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00019	-0.00018	-0.00016
	(A * !C * D * Y)	0.00016	0.00016	0.00017
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00020	-0.00019	-0.00018
	(A * !C * !D * Y)	0.00016	0.00016	0.00016
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00020	-0.00019	-0.00018
	(!A * C * D * Y)	0.00016	0.00016	0.00016
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00016	0.00016	0.00016
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00016	0.00016	0.00016
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00016	0.00016	0.00016
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	0.00019	0.00019	0.00019
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00003	0.00003	0.00003
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00004	0.00004	0.00004
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(A * B * !D * Y)	0.00019	0.00019	0.00021
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	-0.00018	-0.00017	-0.00016
	(!B * D * Y)	0.00019	0.00019	0.00019
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00018	0.00019	0.00019
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00019	0.00019	0.00019
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00019	0.00019	0.00020
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(!C * Y)	-0.00027	-0.00026	-0.00026
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00027	-0.00026	-0.00026
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00027	-0.00026	-0.00026
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for D falling (conditional):

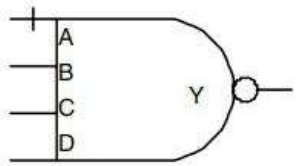
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7L	(!C * Y)	0.00026	0.00026	0.00027
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00026	0.00026	0.00027
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00026	0.00026	0.00027
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1P4H7L	0.00087	0.00082	0.00086	0.00095	0.03410

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1P4H7L	0.00000	0.33955	1.42898

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7L	A->Y (FR)	0.01890	0.11905	0.45990
	B->Y (FR)	0.01774	0.11629	0.45679
	C->Y (FR)	0.01667	0.11379	0.45456
	D->Y (FR)	0.01542	0.11119	0.45289

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7L	A->Y (RF)	0.03257	0.15933	0.52988
	B->Y (RF)	0.03072	0.16337	0.56310
	C->Y (RF)	0.02869	0.16714	0.59554
	D->Y (RF)	0.02566	0.16295	0.58959

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	A	0.00145	0.00167	0.00273
	A	-0.00010	-0.00010	-0.00010
	A	0.00016	0.00016	0.00017
	A	-0.00008	0.00012	0.00117
	B	0.00127	0.00148	0.00253
	B	-0.00010	-0.00010	-0.00010
	B	0.00010	0.00012	0.00012
	B	-0.00004	0.00015	0.00119
	C	0.00115	0.00134	0.00237
	C	-0.00010	-0.00010	-0.00009
	C	0.00004	0.00007	0.00014
	C	-0.00005	0.00017	0.00120
	D	0.00100	0.00121	0.00239
	D	-0.00010	-0.00010	-0.00010
	D	0.00000	0.00002	0.00003
	D	-0.00003	0.00018	0.00134

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	A	-0.00012	-0.00001	0.00076
	A	0.00010	0.00010	0.00010
	A	-0.00017	-0.00016	-0.00016
	A	0.00147	0.00159	0.00236
	B	-0.00011	0.00000	0.00078
	B	0.00010	0.00010	0.00010
	B	-0.00012	-0.00012	-0.00010
	B	0.00125	0.00136	0.00215
	C	-0.00011	0.00001	0.00081
	C	0.00010	0.00010	0.00010
	C	-0.00007	-0.00007	-0.00004
	C	0.00107	0.00118	0.00200
	D	-0.00012	0.00005	0.00104
	D	0.00010	0.00010	0.00010
	D	-0.00002	-0.00002	0.00000
	D	0.00092	0.00108	0.00209

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(B * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	0.00024	0.00024	0.00024
	(B * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00000	0.00001	0.00001
	(B * !C * D * Y)	0.00024	0.00024	0.00024
	(B * !C * !D * Y)	-0.00021	-0.00020	-0.00020
	(B * !C * !D * Y)	-0.00000	-0.00000	0.00001
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00023	0.00023	0.00023
	(!B * C * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * Y)	-0.00000	-0.00000	0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00024	0.00024	0.00024
	(!B * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !C * D * Y)	-0.00000	0.00002	0.00015
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(B * C * !D * Y)	0.00021	0.00021	0.00021
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	-0.00023	-0.00022	-0.00020
	(B * !C * D * Y)	0.00020	0.00020	0.00021
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * D * Y)	-0.00023	-0.00022	-0.00021
	(B * !C * !D * Y)	0.00020	0.00020	0.00021
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00023	-0.00022	-0.00021
	(!B * C * D * Y)	0.00020	0.00020	0.00021
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00024	-0.00023	-0.00021
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00024	-0.00023	-0.00022
	(!B * !C * D * Y)	0.00020	0.00020	0.00020
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(A * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00022	0.00022	0.00022
	(A * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00022	0.00022	0.00022
	(A * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00021	0.00021	0.00021
	(!A * C * D * Y)	-0.00018	-0.00018	-0.00018
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00004	0.00004	0.00004
	(!A * C * D * Y)	0.00006	0.00006	0.00007
	(!A * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00005	0.00005	0.00005
	(!A * C * !D * Y)	0.00006	0.00006	0.00007
	(!A * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00005	0.00005	0.00005
	(!A * !C * D * Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(A * C * !D * Y)	0.00018	0.00019	0.00020
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00021	-0.00019	-0.00017
	(A * !C * D * Y)	0.00018	0.00018	0.00019
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00021	-0.00020	-0.00019
	(A * !C * !D * Y)	0.00018	0.00018	0.00018
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00021	-0.00020	-0.00019
	(!A * C * D * Y)	0.00018	0.00018	0.00018
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00003
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00018	0.00018	0.00018
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00018	0.00018	0.00018
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00018	0.00018	0.00018
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(A * B * !D * Y)	-0.00020	-0.00020	-0.00020
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00005	0.00006	0.00006
	(!B * !D * Y)	-0.00020	-0.00020	-0.00019
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	-0.00020	-0.00020	-0.00020
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00003	0.00003	0.00004
	(!A * B * D * Y)	0.00005	0.00006	0.00006
	(!A * B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * B * !D * Y)	-0.00000	-0.00000	0.00000
	(!A * B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(A * B * !D * Y)	0.00020	0.00021	0.00022
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	-0.00020	-0.00019	-0.00017
	(!B * D * Y)	0.00020	0.00020	0.00021
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00003	-0.00003
	(!B * D * Y)	-0.00005	-0.00006	-0.00005
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	0.00020	0.00020	0.00021
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * Y)	0.00021	0.00021	0.00021
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(!C * Y)	-0.00029	-0.00029	-0.00029
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00029	-0.00029	-0.00029
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00029	-0.00029	-0.00029
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

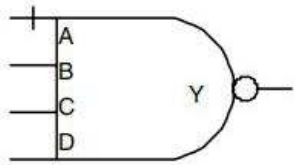
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7L	(!C * Y)	0.00029	0.00029	0.00029
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00029	0.00029	0.00030
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00029	0.00029	0.00030
	(!A * B * C * Y)	0.00000	0.00000	0.00001
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X2H7L	0.00099	0.00099	0.00097	0.00108	0.04145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X2H7L	0.00000	0.39691	1.66092

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7L	A->Y (FR)	0.01756	0.11949	0.46687
	B->Y (FR)	0.01668	0.11700	0.46485
	C->Y (FR)	0.01536	0.11419	0.46257
	D->Y (FR)	0.01408	0.11153	0.46058

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7L	A->Y (RF)	0.02932	0.15679	0.53168
	B->Y (RF)	0.02806	0.16123	0.56449
	C->Y (RF)	0.02544	0.16433	0.59720
	D->Y (RF)	0.02244	0.16024	0.59328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7L	A	0.00161	0.00186	0.00313
	A	-0.00012	-0.00012	-0.00012
	A	0.00020	0.00020	0.00020
	A	-0.00013	0.00009	0.00135
	B	0.00142	0.00167	0.00292
	B	-0.00012	-0.00012	-0.00012
	B	0.00014	0.00014	0.00014
	B	-0.00008	0.00015	0.00138
	C	0.00124	0.00147	0.00271
	C	-0.00012	-0.00012	-0.00012
	C	0.00009	0.00009	0.00016
	C	-0.00011	0.00016	0.00139
	D	0.00108	0.00132	0.00274
	D	-0.00012	-0.00012	-0.00011
	D	0.00001	0.00003	0.00003
	D	-0.00008	0.00017	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7L	A	-0.00014	-0.00001	0.00094
	A	0.00012	0.00012	0.00012
	A	-0.00020	-0.00020	-0.00020
	A	0.00168	0.00181	0.00277
	B	-0.00014	0.00000	0.00096
	B	0.00012	0.00012	0.00012
	B	-0.00014	-0.00014	-0.00014
	B	0.00142	0.00155	0.00252
	C	-0.00013	0.00002	0.00101
	C	0.00012	0.00012	0.00012
	C	-0.00009	-0.00009	-0.00009
	C	0.00120	0.00134	0.00234
	D	-0.00013	0.00006	0.00127
	D	0.00012	0.00012	0.00012
	D	-0.00003	-0.00003	-0.00001
	D	0.00102	0.00121	0.00244

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(B * C * !D * Y)	-0.00023	-0.00023	-0.00022
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	0.00027	0.00028	0.00028
	(B * !C * D * Y)	-0.00023	-0.00023	-0.00022
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00027	0.00028	0.00028
	(B * !C * !D * Y)	-0.00023	-0.00023	-0.00023
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00026	0.00026	0.00027
	(!B * C * D * Y)	-0.00023	-0.00023	-0.00022
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00028	0.00028	0.00028
	(!B * !D * Y)	-0.00023	-0.00023	-0.00023
	(!B * !D * Y)	-0.00000	-0.00000	0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00027	0.00027	0.00027
	(!B * !C * D * Y)	-0.00023	-0.00023	-0.00023
	(!B * !C * D * Y)	-0.00000	0.00002	0.00018
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(B * C * !D * Y)	0.00023	0.00023	0.00023
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	-0.00026	-0.00025	-0.00023
	(B * !C * D * Y)	0.00023	0.00023	0.00023
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00026	-0.00025	-0.00023
	(B * !C * !D * Y)	0.00023	0.00023	0.00023
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00027	-0.00025	-0.00024
	(!B * C * D * Y)	0.00023	0.00023	0.00023
	(!B * C * D * Y)	0.00000	0.00000	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00027	-0.00026	-0.00025
	(!B * !D * Y)	0.00023	0.00023	0.00023
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00027	-0.00026	-0.00025
	(!B * !C * D * Y)	0.00023	0.00023	0.00023
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00027	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00000	0.00000	0.00001
	(A * C * !D * Y)	0.00023	0.00024	0.00024
	(A * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00024	0.00024	0.00024
	(A * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00023	0.00023	0.00023
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00004	0.00004	0.00004
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00023	-0.00022	-0.00022
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00023	-0.00022	-0.00022
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(A * C * !D * Y)	0.00023	0.00023	0.00025
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00001	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00022	-0.00021	-0.00018
	(A * !C * D * Y)	0.00022	0.00023	0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00022	-0.00020
	(A * !C * !D * Y)	0.00022	0.00022	0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00023	-0.00022	-0.00020
	(!A * C * D * Y)	0.00022	0.00022	0.00023
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00022	0.00023	0.00023
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00022	0.00022	0.00023
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00022	0.00022	0.00023
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(A * B * !D * Y)	-0.00022	-0.00021	-0.00021
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	0.00024	0.00024	0.00024
	(!B * D * Y)	-0.00022	-0.00022	-0.00021
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	-0.00022	-0.00021	-0.00021
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00004	0.00004	0.00004
	(!A * B * D * Y)	0.00005	0.00006	0.00006
	(!A * B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(A * B * !D * Y)	0.00022	0.00023	0.00025
	(A * B * !D * Y)	0.00000	0.00000	0.00001
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	-0.00023	-0.00022	-0.00020
	(!B * D * Y)	0.00022	0.00022	0.00022
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	0.00022	0.00022	0.00022
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * Y)	0.00022	0.00023	0.00023
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(!C * Y)	-0.00033	-0.00033	-0.00032
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00033	-0.00033	-0.00032
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!A * B * C * Y)	-0.00033	-0.00033	-0.00032
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00003	0.00003
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

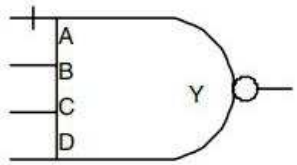
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7L	(!C * Y)	0.00033	0.00033	0.00033
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00032	0.00033	0.00033
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00003	-0.00003	-0.00002
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00032	0.00033	0.00033
	(!A * B * C * Y)	0.00000	0.00000	0.00001
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00002
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X3H7L	0.00166	0.00164	0.00168	0.00173	0.06200

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X3H7L	0.00000	0.63862	2.69932

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7L	A->Y (FR)	0.01820	0.11900	0.45982
	B->Y (FR)	0.01739	0.11608	0.45589
	C->Y (FR)	0.01610	0.11274	0.45361
	D->Y (FR)	0.01364	0.10819	0.44901

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7L	A->Y (RF)	0.03257	0.16024	0.53247
	B->Y (RF)	0.03107	0.16390	0.56504
	C->Y (RF)	0.02777	0.16617	0.59545
	D->Y (RF)	0.02122	0.15891	0.59063

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7L	A	0.00301	0.00341	0.00536
	A	-0.00018	-0.00018	-0.00018
	A	0.00030	0.00030	0.00030
	A	-0.00005	0.00030	0.00224
	B	0.00264	0.00301	0.00494
	B	-0.00018	-0.00018	-0.00018
	B	0.00020	0.00022	0.00024
	B	-0.00001	0.00034	0.00224
	C	0.00225	0.00262	0.00454
	C	-0.00018	-0.00018	-0.00016
	C	0.00011	0.00013	0.00019
	C	-0.00005	0.00034	0.00222
	D	0.00179	0.00218	0.00443
	D	-0.00018	-0.00018	-0.00017
	D	0.00002	0.00004	0.00008
	D	-0.00012	0.00030	0.00251

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7L	A	-0.00022	-0.00003	0.00134
	A	0.00018	0.00018	0.00019
	A	-0.00030	-0.00030	-0.00030
	A	0.00300	0.00319	0.00458
	B	-0.00022	-0.00002	0.00141
	B	0.00018	0.00018	0.00018
	B	-0.00023	-0.00022	-0.00020
	B	0.00254	0.00273	0.00417
	C	-0.00021	0.00001	0.00153
	C	0.00018	0.00018	0.00018
	C	-0.00014	-0.00013	-0.00011
	C	0.00211	0.00233	0.00386
	D	-0.00021	0.00011	0.00206
	D	0.00018	0.00018	0.00018
	D	-0.00004	-0.00004	-0.00002
	D	0.00168	0.00199	0.00398

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(B * C * !D * Y)	-0.00035	-0.00035	-0.00034
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00049	0.00049	0.00049
	(B * !C * D * Y)	-0.00035	-0.00035	-0.00034
	(B * !C * D * Y)	-0.00000	-0.00000	0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00048	0.00049	0.00049
	(B * !C * !D * Y)	-0.00035	-0.00035	-0.00035
	(B * !C * !D * Y)	-0.00001	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00046	0.00047	0.00047
	(!B * C * D * Y)	-0.00035	-0.00034	-0.00034
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00050	0.00051	0.00051
	(!B * !D * Y)	-0.00035	-0.00035	-0.00034
	(!B * !D * Y)	-0.00001	-0.00000	-0.00000
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00048	0.00048	0.00048
	(!B * !C * D * Y)	-0.00035	-0.00035	-0.00034
	(!B * !C * D * Y)	-0.00001	-0.00000	0.00000
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(B * C * !D * Y)	0.00035	0.00036	0.00037
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00047	-0.00043	-0.00039
	(B * !C * D * Y)	0.00035	0.00035	0.00035
	(B * !C * D * Y)	0.00000	0.00001	0.00001
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00047	-0.00044	-0.00040
	(B * !C * !D * Y)	0.00035	0.00035	0.00035
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	-0.00047	-0.00044	-0.00040
	(!B * C * D * Y)	0.00035	0.00035	0.00036
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00048	-0.00046	-0.00043
	(!B * !D * Y)	0.00034	0.00035	0.00035
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	-0.00048	-0.00046	-0.00043
	(!B * !C * D * Y)	0.00034	0.00035	0.00035
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	-0.00048	-0.00046	-0.00043

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(A * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00048	0.00049	0.00049
	(A * !C * D * Y)	-0.00035	-0.00035	-0.00035
	(A * !C * D * Y)	-0.00001	-0.00000	-0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00049	0.00049	0.00049
	(A * !C * !D * Y)	-0.00035	-0.00035	-0.00035
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	0.00001	0.00002	0.00002
	(A * !C * !D * Y)	0.00047	0.00047	0.00047
	(!A * C * D * Y)	-0.00036	-0.00035	-0.00035
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * D * Y)	0.00015	0.00015	0.00015
	(!A * C * !D * Y)	-0.00037	-0.00036	-0.00036
	(!A * C * !D * Y)	-0.00001	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00008	0.00008	0.00009
	(!A * C * !D * Y)	0.00015	0.00015	0.00015
	(!A * !C * D * Y)	-0.00036	-0.00035	-0.00035
	(!A * !C * D * Y)	-0.00001	-0.00000	0.00000
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00015	0.00015	0.00016
	(!A * !C * !D * Y)	-0.00036	-0.00035	-0.00035
	(!A * !C * !D * Y)	-0.00000	-0.00001	-0.00000
	(!A * !C * !D * Y)	0.00009	0.00009	0.00009
	(!A * !C * !D * Y)	0.00015	0.00015	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(A * C * !D * Y)	0.00036	0.00037	0.00040
	(A * C * !D * Y)	0.00000	0.00001	0.00001
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00046	-0.00043	-0.00038
	(A * !C * D * Y)	0.00035	0.00036	0.00039
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00047	-0.00045	-0.00042
	(A * !C * !D * Y)	0.00035	0.00035	0.00035
	(A * !C * !D * Y)	0.00000	0.00000	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * Y)	-0.00047	-0.00045	-0.00042
	(!A * C * D * Y)	0.00035	0.00036	0.00036
	(!A * C * D * Y)	0.00000	0.00001	0.00001
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * Y)	0.00037	0.00037	0.00037
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00008
	(!A * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * Y)	0.00036	0.00036	0.00036
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00009	-0.00009	-0.00009
	(!A * !C * D * Y)	-0.00016	-0.00015	-0.00015
	(!A * !C * !D * Y)	0.00035	0.00036	0.00036
	(!A * !C * !D * Y)	0.00000	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00009	-0.00009	-0.00009
	(!A * !C * !D * Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(A * B * !D * Y)	-0.00036	-0.00036	-0.00035
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00048	0.00049	0.00049
	(!B * D * Y)	-0.00038	-0.00038	-0.00037
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	-0.00038	-0.00038	-0.00038
	(!B * !D * Y)	-0.00001	-0.00000	0.00000
	(!B * !D * Y)	0.00008	0.00008	0.00008
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!A * B * D * Y)	-0.00038	-0.00038	-0.00037
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	0.00013	0.00013	0.00014
	(!A * B * !D * Y)	-0.00038	-0.00037	-0.00037
	(!A * B * !D * Y)	-0.00001	-0.00000	0.00000
	(!A * B * !D * Y)	0.00008	0.00009	0.00009
	(!A * B * !D * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(A * B * !D * Y)	0.00037	0.00040	0.00045
	(A * B * !D * Y)	0.00000	0.00001	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00045	-0.00042	-0.00037
	(!B * D * Y)	0.00038	0.00038	0.00038
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * D * Y)	-0.00016	-0.00015	-0.00015
	(!B * !D * Y)	0.00038	0.00039	0.00039
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00008	-0.00008	-0.00008
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * Y)	0.00038	0.00038	0.00038
	(!A * B * D * Y)	0.00000	0.00001	0.00001
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !D * Y)	0.00038	0.00040	0.00042
	(!A * B * !D * Y)	0.00000	0.00001	0.00001
	(!A * B * !D * Y)	-0.00009	-0.00009	-0.00008
	(!A * B * !D * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(!C * Y)	-0.00053	-0.00052	-0.00052
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00015	0.00015	0.00015
	(!B * C * Y)	-0.00052	-0.00052	-0.00052
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	0.00014	0.00014	0.00015
	(!A * B * C * Y)	-0.00052	-0.00052	-0.00051
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00004	0.00004	0.00004
	(!A * B * C * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for D falling (conditional):

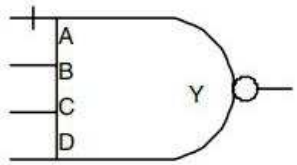
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7L	(!C * Y)	0.00052	0.00052	0.00053
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00015	-0.00015	-0.00015
	(!B * C * Y)	0.00052	0.00052	0.00053
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00015	-0.00014	-0.00014
	(!A * B * C * Y)	0.00051	0.00052	0.00052
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * C * Y)	-0.00013	-0.00013	-0.00013

NAND4X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X4H7L	0.00203	0.00198	0.00206	0.00205	0.08065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X4H7L	0.00000	0.79383	3.32181

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7L	A->Y (FR)	0.01780	0.11920	0.46328
	B->Y (FR)	0.01693	0.11636	0.46041
	C->Y (FR)	0.01565	0.11313	0.45747
	D->Y (FR)	0.01339	0.10902	0.45370

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7L	A->Y (RF)	0.03117	0.15881	0.53210
	B->Y (RF)	0.02968	0.16259	0.56478
	C->Y (RF)	0.02675	0.16541	0.59656
	D->Y (RF)	0.02093	0.15897	0.59287

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7L	A	0.00384	0.00430	0.00679
	A	-0.00024	-0.00024	-0.00023
	A	0.00039	0.00039	0.00040
	A	0.00000	0.00045	0.00291
	B	0.00336	0.00382	0.00627
	B	-0.00024	-0.00024	-0.00024
	B	0.00028	0.00029	0.00031
	B	0.00003	0.00049	0.00291
	C	0.00288	0.00335	0.00578
	C	-0.00024	-0.00024	-0.00021
	C	0.00012	0.00018	0.00064
	C	-0.00035	0.00048	0.00289
	D	0.00235	0.00284	0.00568
	D	-0.00024	-0.00024	-0.00022
	D	0.00001	0.00005	0.00009
	D	-0.00001	0.00051	0.00331

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7L	A	-0.00030	-0.00004	0.00173
	A	0.00023	0.00024	0.00025
	A	-0.00040	-0.00039	-0.00039
	A	0.00371	0.00395	0.00573
	B	-0.00029	-0.00002	0.00180
	B	0.00024	0.00024	0.00025
	B	-0.00030	-0.00028	-0.00028
	B	0.00314	0.00339	0.00523
	C	-0.00028	0.00001	0.00193
	C	0.00024	0.00024	0.00025
	C	-0.00018	-0.00017	-0.00012
	C	0.00263	0.00290	0.00486
	D	-0.00026	0.00013	0.00258
	D	0.00024	0.00024	0.00024
	D	-0.00006	-0.00005	-0.00001
	D	0.00210	0.00247	0.00496

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(B * C * !D * Y)	-0.00046	-0.00046	-0.00045
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	0.00001	0.00002	0.00002
	(B * C * !D * Y)	0.00055	0.00056	0.00056
	(B * !C * D * Y)	-0.00046	-0.00046	-0.00045
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * D * Y)	0.00001	0.00002	0.00002
	(B * !C * D * Y)	0.00055	0.00056	0.00056
	(B * !C * !D * Y)	-0.00046	-0.00046	-0.00046
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	0.00053	0.00053	0.00053
	(!B * C * D * Y)	-0.00046	-0.00046	-0.00046
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00057	0.00058	0.00058
	(!B * !D * Y)	-0.00046	-0.00046	-0.00046
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00055	0.00055	0.00055
	(!B * !C * D * Y)	-0.00046	-0.00046	-0.00046
	(!B * !C * D * Y)	-0.00001	-0.00001	0.00000
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(B * C * !D * Y)	0.00047	0.00047	0.00049
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * Y)	-0.00053	-0.00049	-0.00044
	(B * !C * D * Y)	0.00046	0.00047	0.00047
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * D * Y)	-0.00053	-0.00050	-0.00045
	(B * !C * !D * Y)	0.00046	0.00046	0.00046
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	-0.00053	-0.00050	-0.00045
	(!B * C * D * Y)	0.00046	0.00047	0.00047
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00054	-0.00052	-0.00049
	(!B * !D * Y)	0.00046	0.00046	0.00046
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	-0.00054	-0.00052	-0.00049
	(!B * !C * D * Y)	0.00046	0.00046	0.00046
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	-0.00054	-0.00052	-0.00049

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(A * C * !D * Y)	-0.00046	-0.00045	-0.00045
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00055	0.00055	0.00055
	(A * !C * D * Y)	-0.00046	-0.00045	-0.00045
	(A * !C * D * Y)	-0.00001	-0.00001	0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00056	0.00056	0.00056
	(A * !C * !D * Y)	-0.00046	-0.00046	-0.00045
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	0.00053	0.00053	0.00054
	(!A * C * D * Y)	-0.00046	-0.00046	-0.00046
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * !D * Y)	-0.00047	-0.00047	-0.00046
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00011	0.00011	0.00011
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * !C * D * Y)	-0.00046	-0.00046	-0.00046
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00011	0.00012	0.00011
	(!A * !C * D * Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * Y)	-0.00046	-0.00046	-0.00045
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00012	0.00012	0.00012
	(!A * !C * !D * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(A * C * !D * Y)	0.00046	0.00048	0.00051
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00052	-0.00048	-0.00042
	(A * !C * D * Y)	0.00046	0.00047	0.00048
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00053	-0.00051	-0.00045
	(A * !C * !D * Y)	0.00045	0.00046	0.00046
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	-0.00053	-0.00051	-0.00048
	(!A * C * D * Y)	0.00046	0.00046	0.00047
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00008
	(!A * C * D * Y)	-0.00014	-0.00013	-0.00013
	(!A * C * !D * Y)	0.00047	0.00047	0.00048
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!A * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * Y)	0.00046	0.00046	0.00047
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00011	-0.00012	-0.00011
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * Y)	0.00046	0.00046	0.00046
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(A * B * !D * Y)	-0.00047	-0.00047	-0.00047
	(A * B * !D * Y)	-0.00001	-0.00001	0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00056	0.00056	0.00056
	(!B * D * Y)	-0.00049	-0.00049	-0.00049
	(!B * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * D * Y)	0.00008	0.00008	0.00008
	(!B * D * Y)	0.00014	0.00014	0.00014
	(!B * !D * Y)	-0.00050	-0.00049	-0.00048
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00011	0.00011	0.00011
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!A * B * D * Y)	-0.00049	-0.00049	-0.00048
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * D * Y)	0.00008	0.00008	0.00008
	(!A * B * D * Y)	0.00011	0.00012	0.00012
	(!A * B * !D * Y)	-0.00049	-0.00049	-0.00048
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * !D * Y)	0.00011	0.00012	0.00012
	(!A * B * !D * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(A * B * !D * Y)	0.00048	0.00052	0.00057
	(A * B * !D * Y)	0.00000	0.00001	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00052	-0.00048	-0.00042
	(!B * D * Y)	0.00049	0.00050	0.00050
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00008	-0.00008	-0.00008
	(!B * D * Y)	-0.00014	-0.00014	-0.00013
	(!B * !D * Y)	0.00049	0.00050	0.00051
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * B * D * Y)	0.00049	0.00049	0.00050
	(!A * B * D * Y)	0.00001	0.00001	0.00002
	(!A * B * D * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * D * Y)	-0.00012	-0.00011	-0.00011
	(!A * B * !D * Y)	0.00050	0.00052	0.00053
	(!A * B * !D * Y)	0.00000	0.00001	0.00001
	(!A * B * !D * Y)	-0.00012	-0.00011	-0.00011
	(!A * B * !D * Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(!C * Y)	-0.00064	-0.00064	-0.00063
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00005	0.00005	0.00005
	(!C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	-0.00063	-0.00063	-0.00062
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00005	0.00005	0.00005
	(!B * C * Y)	0.00012	0.00013	0.00013
	(!A * B * C * Y)	-0.00063	-0.00063	-0.00061
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * C * Y)	0.00005	0.00005	0.00005
	(!A * B * C * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for D falling (conditional):

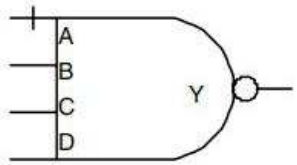
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7L	(!C * Y)	0.00064	0.00064	0.00064
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00005	-0.00002	0.00017
	(!C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	0.00063	0.00063	0.00064
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00005	-0.00005	-0.00005
	(!B * C * Y)	-0.00013	-0.00013	-0.00012
	(!A * B * C * Y)	0.00063	0.00063	0.00063
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * C * Y)	-0.00012	-0.00012	-0.00011

NAND4X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X6H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X6H7L	0.00285	0.00287	0.00291	0.00295	0.12098

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X6H7L	0.00000	1.19074	4.98270

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7L	A->Y (FR)	0.01574	0.11668	0.46164
	B->Y (FR)	0.01504	0.11382	0.45919
	C->Y (FR)	0.01373	0.11042	0.45611
	D->Y (FR)	0.01170	0.10648	0.45297

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7L	A->Y (RF)	0.02597	0.15532	0.53039
	B->Y (RF)	0.02602	0.15936	0.56441
	C->Y (RF)	0.02292	0.16175	0.59715
	D->Y (RF)	0.01771	0.15601	0.59244

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7L	A	0.00509	0.00588	0.00973
	A	-0.00036	-0.00036	-0.00035
	A	0.00059	0.00059	0.00059
	A	-0.00032	0.00036	0.00418
	B	0.00446	0.00518	0.00895
	B	-0.00036	-0.00036	-0.00036
	B	0.00042	0.00043	0.00043
	B	-0.00028	0.00041	0.00413
	C	0.00373	0.00446	0.00823
	C	-0.00036	-0.00036	-0.00036
	C	0.00025	0.00026	0.00026
	C	-0.00030	0.00041	0.00413
	D	0.00301	0.00377	0.00819
	D	-0.00036	-0.00036	-0.00034
	D	0.00003	0.00008	0.00012
	D	-0.00030	0.00051	0.00486

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7L	A	-0.00043	-0.00003	0.00285
	A	0.00035	0.00036	0.00037
	A	-0.00059	-0.00059	-0.00059
	A	0.00530	0.00569	0.00859
	B	-0.00042	-0.00001	0.00295
	B	0.00036	0.00036	0.00036
	B	-0.00043	-0.00043	-0.00042
	B	0.00449	0.00489	0.00787
	C	-0.00040	0.00005	0.00317
	C	0.00036	0.00036	0.00036
	C	-0.00026	-0.00026	-0.00025
	C	0.00373	0.00415	0.00731
	D	-0.00040	0.00022	0.00409
	D	0.00035	0.00036	0.00036
	D	-0.00008	-0.00008	-0.00003
	D	0.00290	0.00350	0.00742

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(B * C * !D * Y)	-0.00064	-0.00063	-0.00063
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	0.00082	0.00083	0.00083
	(B * !C * D * Y)	-0.00064	-0.00063	-0.00063
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	0.00083	0.00084	0.00084
	(B * !C * !D * Y)	-0.00064	-0.00064	-0.00063
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00003	0.00003	0.00004
	(B * !C * !D * Y)	0.00079	0.00079	0.00079
	(!B * C * D * Y)	-0.00064	-0.00063	-0.00063
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00086	0.00086	0.00087
	(!B * !D * Y)	-0.00063	-0.00063	-0.00063
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00081	0.00082	0.00082
	(!B * !C * D * Y)	-0.00064	-0.00063	-0.00063
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	0.00081	0.00082	0.00082

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(B * C * !D * Y)	0.00064	0.00065	0.00067
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	-0.00079	-0.00073	-0.00065
	(B * !C * D * Y)	0.00064	0.00064	0.00064
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	-0.00079	-0.00074	-0.00067
	(B * !C * !D * Y)	0.00063	0.00064	0.00064
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(B * !C * !D * Y)	-0.00079	-0.00075	-0.00067
	(!B * C * D * Y)	0.00064	0.00064	0.00066
	(!B * C * D * Y)	0.00001	0.00001	0.00002
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00081	-0.00077	-0.00073
	(!B * !D * Y)	0.00063	0.00064	0.00064
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	-0.00081	-0.00077	-0.00073
	(!B * !C * D * Y)	0.00063	0.00064	0.00064
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	-0.00081	-0.00077	-0.00074

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(A * C * !D * Y)	-0.00067	-0.00064	-0.00063
	(A * C * !D * Y)	-0.00001	-0.00001	0.00001
	(A * C * !D * Y)	0.00001	0.00002	0.00002
	(A * C * !D * Y)	0.00083	0.00084	0.00084
	(A * !C * D * Y)	-0.00064	-0.00064	-0.00064
	(A * !C * D * Y)	-0.00001	-0.00001	0.00000
	(A * !C * D * Y)	0.00001	0.00002	0.00002
	(A * !C * D * Y)	0.00085	0.00085	0.00085
	(A * !C * !D * Y)	-0.00065	-0.00064	-0.00064
	(A * !C * !D * Y)	-0.00001	-0.00001	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00004
	(A * !C * !D * Y)	0.00080	0.00081	0.00081
	(!A * C * D * Y)	-0.00064	-0.00064	-0.00064
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00013	0.00013	0.00013
	(!A * C * D * Y)	0.00019	0.00019	0.00019
	(!A * C * !D * Y)	-0.00066	-0.00066	-0.00065
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00017	0.00018	0.00018
	(!A * C * !D * Y)	0.00018	0.00018	0.00018
	(!A * !C * D * Y)	-0.00065	-0.00065	-0.00065
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00018	0.00018	0.00018
	(!A * !C * D * Y)	0.00020	0.00020	0.00020
	(!A * !C * !D * Y)	-0.00065	-0.00065	-0.00064
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00019	0.00019	0.00019
	(!A * !C * !D * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(A * C * !D * Y)	0.00065	0.00068	0.00074
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * Y)	-0.00079	-0.00073	-0.00063
	(A * !C * D * Y)	0.00065	0.00066	0.00069
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * D * Y)	-0.00080	-0.00076	-0.00068
	(A * !C * !D * Y)	0.00064	0.00065	0.00065
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(A * !C * !D * Y)	-0.00081	-0.00077	-0.00072
	(!A * C * D * Y)	0.00065	0.00065	0.00065
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * Y)	-0.00019	-0.00019	-0.00019
	(!A * C * !D * Y)	0.00066	0.00067	0.00067
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00018	-0.00018	-0.00017
	(!A * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * D * Y)	0.00065	0.00065	0.00065
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(!A * !C * !D * Y)	0.00064	0.00065	0.00065
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00019	-0.00019	-0.00019
	(!A * !C * !D * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(A * B * !D * Y)	-0.00065	-0.00064	-0.00063
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00085	0.00086	0.00086
	(!B * D * Y)	-0.00067	-0.00066	-0.00066
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00012	0.00013	0.00013
	(!B * D * Y)	0.00019	0.00019	0.00020
	(!B * !D * Y)	-0.00066	-0.00066	-0.00066
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00017	0.00017	0.00018
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!A * B * D * Y)	-0.00067	-0.00067	-0.00066
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00013	0.00013	0.00013
	(!A * B * D * Y)	0.00018	0.00018	0.00019
	(!A * B * !D * Y)	-0.00066	-0.00066	-0.00065
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00018	0.00018	0.00018
	(!A * B * !D * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(A * B * !D * Y)	0.00066	0.00072	0.00081
	(A * B * !D * Y)	0.00001	0.00001	0.00002
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00079	-0.00074	-0.00067
	(!B * D * Y)	0.00067	0.00068	0.00068
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00013	-0.00012	-0.00012
	(!B * D * Y)	-0.00019	-0.00019	-0.00019
	(!B * !D * Y)	0.00067	0.00068	0.00069
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00018	-0.00017	-0.00017
	(!B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * B * D * Y)	0.00067	0.00068	0.00068
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00013	-0.00012	-0.00012
	(!A * B * D * Y)	-0.00018	-0.00018	-0.00017
	(!A * B * !D * Y)	0.00068	0.00072	0.00076
	(!A * B * !D * Y)	0.00001	0.00001	0.00002
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00018

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(!C * Y)	-0.00092	-0.00091	-0.00090
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00008	0.00008	0.00008
	(!C * Y)	0.00017	0.00018	0.00018
	(!B * C * Y)	-0.00091	-0.00090	-0.00089
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00008	0.00008	0.00009
	(!B * C * Y)	0.00018	0.00018	0.00019
	(!A * B * C * Y)	-0.00091	-0.00091	-0.00090
	(!A * B * C * Y)	-0.00002	-0.00001	-0.00001
	(!A * B * C * Y)	0.00008	0.00008	0.00009
	(!A * B * C * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for D falling (conditional):

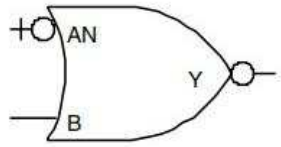
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7L	(!C * Y)	0.00091	0.00092	0.00092
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00008	-0.00008	-0.00008
	(!C * Y)	-0.00017	-0.00017	-0.00017
	(!B * C * Y)	0.00089	0.00090	0.00091
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00008	-0.00008	-0.00008
	(!B * C * Y)	-0.00018	-0.00018	-0.00017
	(!A * B * C * Y)	0.00090	0.00091	0.00092
	(!A * B * C * Y)	0.00001	0.00001	0.00002
	(!A * B * C * Y)	-0.00009	-0.00008	-0.00008
	(!A * B * C * Y)	-0.00018	-0.00017	-0.00017

NOR2BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P5H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P5H7L	0.00078	0.00073	0.02423

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P5H7L	0.00000	1.29601	2.40371

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7L	AN->Y (RR)	0.03651	0.15913	0.46864
	B->Y (FR)	0.02557	0.18444	0.66133

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7L	AN->Y (FF)	0.02682	0.09506	0.26697
	B->Y (RF)	-0.01195	0.06997	0.31710

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	AN	0.00052	0.00081	0.00175
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00002	0.00002	0.00002
	AN	0.00085	0.00114	0.00208
	B	0.00051	0.00066	0.00155
	B	-0.00002	-0.00001	-0.00001
	B	0.00003	0.00003	0.00003
	B	-0.00005	0.00012	0.00100

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	AN	0.00080	0.00112	0.00222
	AN	0.00003	0.00003	0.00003
	AN	-0.00002	-0.00002	-0.00002
	AN	0.00046	0.00078	0.00188
	B	-0.00007	0.00008	0.00091
	B	0.00001	0.00001	0.00002
	B	-0.00003	-0.00003	-0.00003
	B	0.00043	0.00062	0.00147

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	(B * !Y)	0.00001	0.00029	0.00122
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00063	0.00090	0.00184

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	(B * !Y)	0.00071	0.00102	0.00203
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00009	0.00040	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

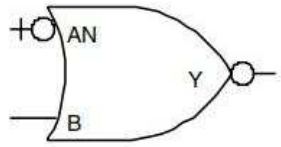
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7L	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	0.00001	0.00002	0.00001
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00027	-0.00027	-0.00026

NOR2BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P7H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P7H7L	0.00079	0.00079	0.02740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P7H7L	0.00000	1.33712	2.54728

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7L	AN->Y (RR)	0.03544	0.15901	0.46971
	B->Y (FR)	0.02378	0.18291	0.66271

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7L	AN->Y (FF)	0.02692	0.09544	0.26728
	B->Y (RF)	-0.01475	0.06873	0.31620

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	AN	0.00058	0.00086	0.00180
	AN	-0.00004	-0.00003	-0.00003
	AN	0.00002	0.00002	0.00002
	AN	0.00089	0.00117	0.00211
	B	0.00054	0.00072	0.00171
	B	-0.00002	-0.00002	-0.00001
	B	0.00003	0.00003	0.00004
	B	-0.00006	0.00012	0.00111

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	AN	0.00084	0.00116	0.00227
	AN	0.00003	0.00003	0.00004
	AN	-0.00002	-0.00002	-0.00002
	AN	0.00053	0.00084	0.00195
	B	-0.00008	0.00008	0.00102
	B	0.00001	0.00002	0.00002
	B	-0.00004	-0.00003	-0.00003
	B	0.00049	0.00067	0.00162

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	(B * !Y)	0.00002	0.00030	0.00122
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00065	0.00092	0.00185

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	(B * !Y)	0.00074	0.00104	0.00205
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00011	0.00041	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	(!AN * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

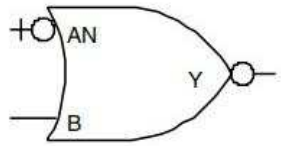
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7L	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00029	-0.00029	-0.00028

NOR2BX12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX12H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX12H7L	0.00209	0.00589	0.25689

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX12H7L	0.00000	7.72758	20.40150

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7L	AN->Y (RR)	0.03079	0.16385	0.49051
	B->Y (FR)	0.01349	0.17381	0.66448

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7L	AN->Y (FF)	0.02917	0.10525	0.28668
	B->Y (RF)	-0.03782	0.06158	0.30976

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7L	AN	0.00559	0.00658	0.00994
	AN	-0.00044	-0.00044	-0.00043
	AN	0.00028	0.00029	0.00030
	AN	0.00439	0.00539	0.00876
	B	0.00414	0.00585	0.01598
	B	-0.00017	-0.00016	-0.00005
	B	0.00033	0.00035	0.00035
	B	-0.00057	0.00123	0.01126

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7L	AN	0.00434	0.00546	0.01020
	AN	0.00043	0.00044	0.00044
	AN	-0.00030	-0.00029	-0.00028
	AN	0.00539	0.00653	0.01128
	B	-0.00078	0.00084	0.01008
	B	0.00005	0.00016	0.00019
	B	-0.00035	-0.00034	-0.00033
	B	0.00352	0.00543	0.01481

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7L	(B * !Y)	0.00091	0.00169	0.00444
	(B * !Y)	0.00010	0.00011	0.00011
	(B * !Y)	-0.00008	-0.00007	-0.00007
	(B * !Y)	0.00261	0.00339	0.00614

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7L	(B * !Y)	0.00323	0.00407	0.00704
	(B * !Y)	-0.00011	-0.00011	-0.00010
	(B * !Y)	0.00007	0.00007	0.00008
	(B * !Y)	0.00146	0.00230	0.00527

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7L	(!AN * !Y)	-0.00016	-0.00016	-0.00016
	(!AN * !Y)	-0.00013	-0.00013	-0.00013
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	0.00225	0.00227	0.00228

Passive power(pJ) for B falling (conditional):

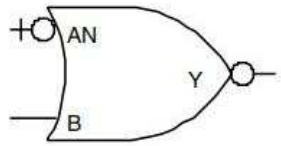
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7L	(!AN * !Y)	0.00017	0.00017	0.00017
	(!AN * !Y)	0.00014	0.00014	0.00014
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	-0.00226	-0.00226	-0.00224

NOR2BX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX16H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX16H7L	0.00312	0.00789	0.34257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX16H7L	0.00000	10.63120	27.30860

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7L	AN->Y (RR)	0.02949	0.16152	0.48718
	B->Y (FR)	0.01326	0.17370	0.66419

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7L	AN->Y (FF)	0.02761	0.10248	0.28208
	B->Y (RF)	-0.03861	0.06142	0.30992

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7L	AN	0.00741	0.00888	0.01383
	AN	-0.00058	-0.00057	-0.00056
	AN	0.00034	0.00038	0.00039
	AN	0.00606	0.00754	0.01250
	B	0.00551	0.00781	0.02136
	B	-0.00024	-0.00022	-0.00013
	B	0.00044	0.00046	0.00047
	B	-0.00080	0.00162	0.01505

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7L	AN	0.00605	0.00772	0.01450
	AN	0.00056	0.00057	0.00058
	AN	-0.00038	-0.00038	-0.00034
	AN	0.00721	0.00889	0.01569
	B	-0.00108	0.00110	0.01347
	B	0.00013	0.00022	0.00037
	B	-0.00047	-0.00046	-0.00044
	B	0.00473	0.00725	0.01980

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7L	(B * !Y)	0.00118	0.00237	0.00657
	(B * !Y)	0.00015	0.00015	0.00015
	(B * !Y)	-0.00011	-0.00011	-0.00011
	(B * !Y)	0.00370	0.00490	0.00910

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7L	(B * !Y)	0.00457	0.00588	0.01042
	(B * !Y)	-0.00015	-0.00015	-0.00015
	(B * !Y)	0.00011	0.00011	0.00011
	(B * !Y)	0.00194	0.00325	0.00779

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7L	(!AN * !Y)	-0.00022	-0.00022	-0.00022
	(!AN * !Y)	-0.00018	-0.00018	-0.00018
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	0.00299	0.00303	0.00304

Passive power(pJ) for B falling (conditional):

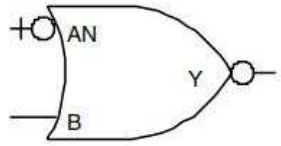
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7L	(!AN * !Y)	0.00023	0.00023	0.00024
	(!AN * !Y)	0.00019	0.00019	0.00019
	(!AN * !Y)	-0.00003	-0.00003	-0.00002
	(!AN * !Y)	-0.00302	-0.00301	-0.00298

NOR2BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1H7L	0.00086	0.00091	0.03239

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1H7L	0.00000	1.40645	2.78802

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7L	AN->Y (RR)	0.03519	0.16041	0.47317
	B->Y (FR)	0.02229	0.18156	0.66269

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7L	AN->Y (FF)	0.02848	0.09860	0.27301
	B->Y (RF)	-0.01646	0.06863	0.31870

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7L	AN	0.00067	0.00095	0.00188
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00003	0.00003	0.00003
	AN	0.00100	0.00128	0.00220
	B	0.00063	0.00082	0.00198
	B	-0.00002	-0.00002	-0.00001
	B	0.00004	0.00004	0.00004
	B	-0.00008	0.00013	0.00127

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7L	AN	0.00095	0.00126	0.00237
	AN	0.00004	0.00005	0.00005
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00060	0.00092	0.00203
	B	-0.00009	0.00010	0.00117
	B	0.00001	0.00002	0.00002
	B	-0.00004	-0.00004	-0.00004
	B	0.00055	0.00079	0.00188

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7L	(B * !Y)	0.00004	0.00030	0.00121
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00002	-0.00002	-0.00001
	(B * !Y)	0.00074	0.00100	0.00190

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7L	(B * !Y)	0.00083	0.00112	0.00210
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00012	0.00041	0.00139

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7L	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for B falling (conditional):

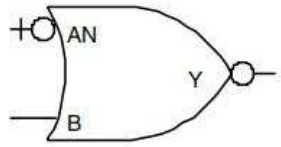
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7L	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00033	-0.00033	-0.00033

NOR2BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1P4H7L	0.00088	0.00099	0.03695

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1P4H7L	0.00000	1.48375	3.05729

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7L	AN->Y (RR)	0.03501	0.16157	0.47675
	B->Y (FR)	0.02144	0.18141	0.66426

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7L	AN->Y (FF)	0.02898	0.09964	0.27452
	B->Y (RF)	-0.01820	0.06795	0.31800

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	AN	0.00078	0.00106	0.00198
	AN	-0.00006	-0.00006	-0.00005
	AN	0.00003	0.00003	0.00003
	AN	0.00107	0.00135	0.00227
	B	0.00072	0.00094	0.00224
	B	-0.00002	-0.00002	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00005	0.00018	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	AN	0.00099	0.00130	0.00243
	AN	0.00005	0.00006	0.00006
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00070	0.00100	0.00213
	B	-0.00010	0.00011	0.00132
	B	0.00002	0.00002	0.00003
	B	-0.00005	-0.00005	-0.00004
	B	0.00062	0.00086	0.00210

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	(B * !Y)	0.00006	0.00032	0.00121
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00076	0.00102	0.00192

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	(B * !Y)	0.00085	0.00114	0.00211
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00014	0.00042	0.00139

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B falling (conditional):

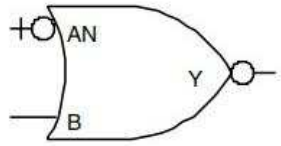
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7L	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00036	-0.00036	-0.00036

NOR2BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX2H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX2H7L	0.00091	0.00106	0.04348

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX2H7L	0.00000	1.61664	3.51576

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7L	AN->Y (RR)	0.03419	0.16244	0.48167
	B->Y (FR)	0.01880	0.17900	0.66405

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7L	AN->Y (FF)	0.02971	0.10095	0.27620
	B->Y (RF)	-0.02403	0.06533	0.31259

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7L	AN	0.00086	0.00114	0.00206
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00004	0.00004	0.00004
	AN	0.00113	0.00141	0.00233
	B	0.00074	0.00101	0.00258
	B	-0.00003	-0.00003	-0.00002
	B	0.00006	0.00006	0.00006
	B	-0.00009	0.00019	0.00174

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7L	AN	0.00109	0.00139	0.00254
	AN	0.00007	0.00007	0.00007
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00080	0.00110	0.00226
	B	-0.00012	0.00013	0.00159
	B	0.00002	0.00003	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00067	0.00095	0.00243

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7L	(B * !Y)	0.00008	0.00033	0.00121
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00082	0.00107	0.00195

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7L	(B * !Y)	0.00093	0.00120	0.00215
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00017	0.00045	0.00140

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7L	(!AN * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !Y)	-0.00003	-0.00003	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for B falling (conditional):

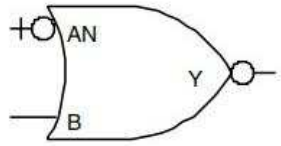
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7L	(!AN * !Y)	0.00007	0.00007	0.00007
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00038	-0.00038	-0.00038

NOR2BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX3H7L	0.00099	0.00172	0.06725

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX3H7L	0.00000	2.33092	5.61183

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7L	AN->Y (RR)	0.03539	0.16624	0.48967
	B->Y (FR)	0.01747	0.17751	0.66358

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7L	AN->Y (FF)	0.03040	0.10432	0.28271
	B->Y (RF)	-0.02763	0.06485	0.31327

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7L	AN	0.00167	0.00202	0.00315
	AN	-0.00010	-0.00010	-0.00010
	AN	0.00007	0.00007	0.00007
	AN	0.00167	0.00202	0.00315
	B	0.00124	0.00168	0.00423
	B	-0.00004	-0.00004	-0.00003
	B	0.00008	0.00009	0.00009
	B	-0.00012	0.00034	0.00287

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7L	AN	0.00156	0.00195	0.00347
	AN	0.00010	0.00010	0.00010
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00153	0.00192	0.00344
	B	-0.00021	0.00020	0.00255
	B	0.00003	0.00004	0.00005
	B	-0.00009	-0.00009	-0.00008
	B	0.00109	0.00153	0.00392

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7L	(B * !Y)	0.00020	0.00050	0.00157
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00099	0.00129	0.00236

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7L	(B * !Y)	0.00123	0.00156	0.00272
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00002	0.00003	0.00002
	(B * !Y)	0.00042	0.00075	0.00192

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7L	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00068	0.00068	0.00069

Passive power(pJ) for B falling (conditional):

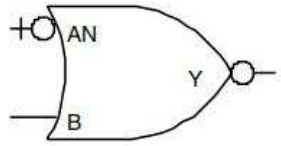
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7L	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !Y)	-0.00068	-0.00068	-0.00067

NOR2BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX4H7L	0.00107	0.00201	0.08586

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX4H7L	0.00000	2.77641	6.86183

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7L	AN->Y (RR)	0.03274	0.16349	0.48549
	B->Y (FR)	0.01559	0.17579	0.66239

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7L	AN->Y (FF)	0.02964	0.10395	0.28310
	B->Y (RF)	-0.03210	0.06300	0.31028

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7L	AN	0.00194	0.00234	0.00365
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00009	0.00009	0.00010
	AN	0.00183	0.00223	0.00354
	B	0.00143	0.00199	0.00528
	B	-0.00006	-0.00005	-0.00002
	B	0.00011	0.00012	0.00012
	B	-0.00016	0.00042	0.00367

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7L	AN	0.00175	0.00220	0.00399
	AN	0.00014	0.00014	0.00014
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00183	0.00228	0.00406
	B	-0.00027	0.00025	0.00325
	B	0.00002	0.00006	0.00008
	B	-0.00012	-0.00012	-0.00011
	B	0.00119	0.00181	0.00486

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7L	(B * !Y)	0.00027	0.00061	0.00180
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00113	0.00147	0.00267

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7L	(B * !Y)	0.00137	0.00174	0.00303
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00048	0.00085	0.00215

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7L	(!AN * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00076	0.00077	0.00077

Passive power(pJ) for B falling (conditional):

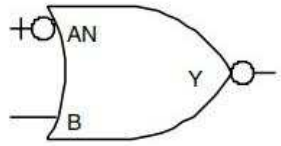
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7L	(!AN * !Y)	0.00007	0.00007	0.00007
	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	-0.00001	-0.00001	0.00000
	(!AN * !Y)	-0.00077	-0.00076	-0.00076

NOR2BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX6H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX6H7L	0.00118	0.00301	0.12887

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX6H7L	0.00000	3.86380	10.20080

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7L	AN->Y (RR)	0.03282	0.16597	0.49203
	B->Y (FR)	0.01478	0.17495	0.66343

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7L	AN->Y (FF)	0.03107	0.10759	0.29029
	B->Y (RF)	-0.03429	0.06250	0.31056

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7L	AN	0.00282	0.00330	0.00492
	AN	-0.00022	-0.00022	-0.00021
	AN	0.00014	0.00015	0.00015
	AN	0.00234	0.00281	0.00444
	B	0.00214	0.00299	0.00797
	B	-0.00009	-0.00008	-0.00006
	B	0.00017	0.00017	0.00018
	B	-0.00025	0.00063	0.00556

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7L	AN	0.00232	0.00286	0.00518
	AN	0.00021	0.00022	0.00022
	AN	-0.00015	-0.00015	-0.00014
	AN	0.00273	0.00329	0.00561
	B	-0.00038	0.00042	0.00497
	B	0.00006	0.00008	0.00011
	B	-0.00017	-0.00017	-0.00017
	B	0.00181	0.00276	0.00739

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7L	(B * !Y)	0.00044	0.00082	0.00217
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00004	-0.00004	-0.00003
	(B * !Y)	0.00141	0.00179	0.00314

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7L	(B * !Y)	0.00176	0.00217	0.00363
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	0.00075	0.00117	0.00263

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7L	(!AN * !Y)	-0.00011	-0.00011	-0.00010
	(!AN * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00114	0.00114	0.00115

Passive power(pJ) for B falling (conditional):

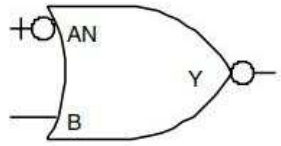
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7L	(!AN * !Y)	0.00011	0.00011	0.00011
	(!AN * !Y)	0.00007	0.00007	0.00007
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	-0.00114	-0.00113	-0.00112

NOR2BX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX8H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX8H7L	0.00188	0.00394	0.17170

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX8H7L	0.00000	5.55283	13.72370

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7L	AN->Y (RR)	0.02955	0.15990	0.48282
	B->Y (FR)	0.01417	0.17464	0.66443

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7L	AN->Y (FF)	0.02698	0.10040	0.27762
	B->Y (RF)	-0.03601	0.06210	0.31019

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7L	AN	0.00374	0.00457	0.00731
	AN	-0.00028	-0.00028	-0.00028
	AN	0.00018	0.00019	0.00019
	AN	0.00331	0.00413	0.00688
	B	0.00280	0.00393	0.01062
	B	-0.00012	-0.00011	-0.00010
	B	0.00023	0.00023	0.00024
	B	-0.00034	0.00084	0.00746

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7L	AN	0.00316	0.00409	0.00777
	AN	0.00028	0.00028	0.00028
	AN	-0.00019	-0.00019	-0.00018
	AN	0.00353	0.00444	0.00813
	B	-0.00049	0.00057	0.00668
	B	0.00010	0.00011	0.00014
	B	-0.00024	-0.00023	-0.00023
	B	0.00236	0.00364	0.00985

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7L	(B * !Y)	0.00056	0.00126	0.00371
	(B * !Y)	0.00008	0.00008	0.00008
	(B * !Y)	-0.00006	-0.00006	-0.00006
	(B * !Y)	0.00206	0.00276	0.00521

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7L	(B * !Y)	0.00243	0.00319	0.00585
	(B * !Y)	-0.00008	-0.00008	-0.00008
	(B * !Y)	0.00006	0.00006	0.00006
	(B * !Y)	0.00088	0.00165	0.00429

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7L	(!AN * !Y)	-0.00010	-0.00010	-0.00010
	(!AN * !Y)	-0.00009	-0.00009	-0.00008
	(!AN * !Y)	0.00001	0.00001	0.00002
	(!AN * !Y)	0.00151	0.00153	0.00154

Passive power(pJ) for B falling (conditional):

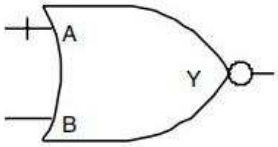
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7L	(!AN * !Y)	0.00011	0.00011	0.00011
	(!AN * !Y)	0.00009	0.00009	0.00009
	(!AN * !Y)	-0.00002	-0.00001	-0.00001
	(!AN * !Y)	-0.00153	-0.00152	-0.00150

NOR2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P5H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P5H7L	0.00062	0.00078	0.02286

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P5H7L	0.00000	0.63951	2.18161

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7L	A->Y (FR)	0.02624	0.17628	0.62633
	B->Y (FR)	0.02597	0.17793	0.63849

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7L	A->Y (RF)	-0.00149	0.06896	0.30607
	B->Y (RF)	-0.01196	0.06739	0.30555

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	A	0.00058	0.00070	0.00146
	A	-0.00004	-0.00004	-0.00004
	A	0.00003	0.00003	0.00003
	A	-0.00011	0.00001	0.00077
	B	0.00051	0.00067	0.00155
	B	-0.00001	-0.00001	-0.00001
	B	0.00003	0.00003	0.00003
	B	-0.00009	0.00007	0.00095

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	A	-0.00006	0.00007	0.00082
	A	0.00004	0.00004	0.00004
	A	-0.00003	-0.00003	-0.00003
	A	0.00056	0.00075	0.00151
	B	-0.00007	0.00007	0.00091
	B	0.00001	0.00001	0.00001
	B	-0.00003	-0.00003	-0.00003
	B	0.00050	0.00067	0.00151

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	(B * !Y)	-0.00009	-0.00008	-0.00007
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	(B * !Y)	0.00009	0.00009	0.00009
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

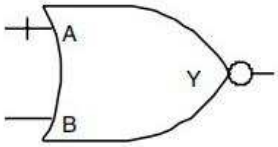
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00001	0.00002	0.00001
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00029	-0.00029	-0.00028

NOR2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P7H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P7H7L	0.00066	0.00079	0.02593

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P7H7L	0.00000	0.68062	2.32518

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7L	A->Y (FR)	0.02404	0.17467	0.62684
	B->Y (FR)	0.02354	0.17607	0.64017

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7L	A->Y (RF)	-0.00480	0.06764	0.30622
	B->Y (RF)	-0.01556	0.06596	0.30478

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	A	0.00061	0.00075	0.00160
	A	-0.00005	-0.00005	-0.00005
	A	0.00003	0.00003	0.00004
	A	-0.00013	0.00000	0.00085
	B	0.00053	0.00070	0.00170
	B	-0.00002	-0.00002	-0.00001
	B	0.00003	0.00003	0.00004
	B	-0.00009	0.00009	0.00108

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	A	-0.00007	0.00008	0.00091
	A	0.00005	0.00005	0.00005
	A	-0.00003	-0.00003	-0.00003
	A	0.00060	0.00080	0.00165
	B	-0.00008	0.00008	0.00102
	B	0.00001	0.00002	0.00002
	B	-0.00004	-0.00003	-0.00003
	B	0.00046	0.00069	0.00164

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	(B * !Y)	-0.00010	-0.00009	-0.00008
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	(B * !Y)	0.00010	0.00010	0.00010
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

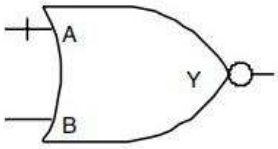
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00029	-0.00029	-0.00029

NOR2X12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X12H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X12H7L	0.00567	0.00588	0.24385

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X12H7L	0.00000	5.76085	19.76190

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7L	A->Y (FR)	0.01640	0.16792	0.63088
	B->Y (FR)	0.01343	0.16706	0.64217

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7L	A->Y (RF)	-0.02303	0.06223	0.30121
	B->Y (RF)	-0.03808	0.05911	0.29863

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7L	A	0.00577	0.00703	0.01559
	A	-0.00053	-0.00049	-0.00049
	A	0.00034	0.00035	0.00035
	A	-0.00103	0.00025	0.00876
	B	0.00407	0.00581	0.01596
	B	-0.00017	-0.00016	-0.00010
	B	0.00034	0.00035	0.00035
	B	-0.00115	0.00068	0.01072

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7L	A	-0.00076	0.00060	0.00841
	A	0.00049	0.00049	0.00053
	A	-0.00035	-0.00035	-0.00033
	A	0.00527	0.00715	0.01509
	B	-0.00076	0.00087	0.01012
	B	0.00010	0.00016	0.00018
	B	-0.00035	-0.00035	-0.00034
	B	0.00418	0.00597	0.01536

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7L	(B * !Y)	-0.00107	-0.00097	-0.00080
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00181	0.00188	0.00196

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7L	(B * !Y)	0.00116	0.00117	0.00118
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00002	-0.00002	-0.00001
	(B * !Y)	-0.00179	-0.00178	-0.00177

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00013	-0.00013	-0.00013
	(A * !Y)	0.00002	0.00002	0.00003
	(A * !Y)	0.00225	0.00227	0.00228

Passive power(pJ) for B falling (conditional):

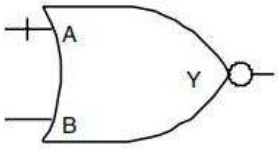
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00014	0.00014	0.00014
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	-0.00227	-0.00226	-0.00225

NOR2X16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X16H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X16H7L	0.00758	0.00780	0.32500

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X16H7L	0.00000	7.68113	26.34920

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7L	A->Y (FR)	0.01617	0.16778	0.63108
	B->Y (FR)	0.01319	0.16697	0.64295

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7L	A->Y (RF)	-0.02365	0.06211	0.30121
	B->Y (RF)	-0.03881	0.05894	0.29868

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7L	A	0.00768	0.00937	0.02084
	A	-0.00066	-0.00065	-0.00065
	A	0.00046	0.00046	0.00047
	A	-0.00140	0.00033	0.01171
	B	0.00543	0.00775	0.02133
	B	-0.00022	-0.00021	-0.00015
	B	0.00046	0.00046	0.00047
	B	-0.00152	0.00091	0.01436

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7L	A	-0.00106	0.00080	0.01125
	A	0.00065	0.00065	0.00066
	A	-0.00046	-0.00046	-0.00046
	A	0.00704	0.00955	0.02015
	B	-0.00102	0.00116	0.01352
	B	0.00015	0.00022	0.00027
	B	-0.00046	-0.00046	-0.00046
	B	0.00550	0.00794	0.02048

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7L	(B * !Y)	-0.00143	-0.00130	-0.00111
	(B * !Y)	-0.00007	-0.00007	-0.00006
	(B * !Y)	0.00003	0.00003	0.00005
	(B * !Y)	0.00241	0.00252	0.00274

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7L	(B * !Y)	0.00155	0.00157	0.00158
	(B * !Y)	0.00006	0.00007	0.00007
	(B * !Y)	-0.00003	-0.00002	-0.00001
	(B * !Y)	-0.00239	-0.00237	-0.00236

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00018	-0.00018	-0.00017
	(A * !Y)	0.00002	0.00003	0.00003
	(A * !Y)	0.00297	0.00300	0.00301

Passive power(pJ) for B falling (conditional):

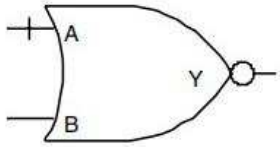
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00018	0.00018	0.00018
	(A * !Y)	-0.00003	-0.00003	-0.00002
	(A * !Y)	-0.00300	-0.00298	-0.00297

NOR2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1H7L	0.00075	0.00086	0.03072

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1H7L	0.00000	0.74996	2.56592

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7L	A->Y (FR)	0.02256	0.17364	0.62922
	B->Y (FR)	0.02153	0.17443	0.64123

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7L	A->Y (RF)	-0.00680	0.06757	0.30800
	B->Y (RF)	-0.01784	0.06568	0.30642

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7L	A	0.00071	0.00086	0.00185
	A	-0.00006	-0.00006	-0.00006
	A	0.00004	0.00004	0.00004
	A	-0.00015	0.00001	0.00099
	B	0.00059	0.00079	0.00195
	B	-0.00002	-0.00002	-0.00002
	B	0.00004	0.00004	0.00004
	B	-0.00011	0.00010	0.00125

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7L	A	-0.00009	0.00008	0.00104
	A	0.00006	0.00006	0.00006
	A	-0.00004	-0.00004	-0.00004
	A	0.00070	0.00092	0.00189
	B	-0.00009	0.00010	0.00118
	B	0.00002	0.00002	0.00002
	B	-0.00004	-0.00004	-0.00004
	B	0.00056	0.00079	0.00189

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7L	(B * !Y)	-0.00011	-0.00011	-0.00009
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00028	0.00029	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7L	(B * !Y)	0.00012	0.00012	0.00012
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B falling (conditional):

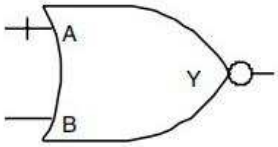
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00032	-0.00032	-0.00032

NOR2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1P4H7L	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1P4H7L	0.00082	0.00094	0.03496

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1P4H7L	0.00000	0.82725	2.83518

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7L	A->Y (FR)	0.02150	0.17297	0.63139
	B->Y (FR)	0.02043	0.17364	0.64160

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7L	A->Y (RF)	-0.00915	0.06663	0.30658
	B->Y (RF)	-0.02024	0.06475	0.30569

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	A	0.00080	0.00097	0.00209
	A	-0.00007	-0.00007	-0.00007
	A	0.00005	0.00005	0.00005
	A	-0.00015	0.00003	0.00114
	B	0.00066	0.00089	0.00220
	B	-0.00002	-0.00002	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00011	0.00013	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	A	-0.00010	0.00009	0.00116
	A	0.00007	0.00007	0.00007
	A	-0.00005	-0.00005	-0.00005
	A	0.00073	0.00101	0.00209
	B	-0.00010	0.00011	0.00134
	B	0.00002	0.00002	0.00004
	B	-0.00005	-0.00005	-0.00005
	B	0.00061	0.00086	0.00211

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	(B * !Y)	-0.00013	-0.00012	-0.00011
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00029	0.00030	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	(B * !Y)	0.00014	0.00014	0.00014
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

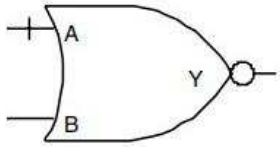
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00034	-0.00034	-0.00034

NOR2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X2H7L	0.00136	0.00139	0.04559

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X2H7L	0.00000	1.27902	4.36322

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7L	A->Y (FR)	0.02345	0.17378	0.62733
	B->Y (FR)	0.01965	0.17195	0.63748

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7L	A->Y (RF)	-0.00927	0.06750	0.30746
	B->Y (RF)	-0.02384	0.06422	0.30490

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7L	A	0.00132	0.00156	0.00315
	A	-0.00009	-0.00008	-0.00008
	A	0.00006	0.00006	0.00006
	A	-0.00019	0.00005	0.00163
	B	0.00092	0.00126	0.00317
	B	-0.00003	-0.00003	-0.00002
	B	0.00006	0.00006	0.00006
	B	-0.00027	0.00008	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7L	A	-0.00015	0.00013	0.00165
	A	0.00008	0.00008	0.00009
	A	-0.00006	-0.00006	-0.00006
	A	0.00122	0.00159	0.00313
	B	-0.00012	0.00019	0.00196
	B	0.00003	0.00003	0.00003
	B	-0.00006	-0.00006	-0.00006
	B	0.00103	0.00137	0.00316

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7L	(B * !Y)	-0.00021	-0.00019	-0.00015
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00001
	(B * !Y)	0.00047	0.00048	0.00051

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7L	(B * !Y)	0.00023	0.00023	0.00023
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00046	-0.00046	-0.00046

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00057	0.00058	0.00058

Passive power(pJ) for B falling (conditional):

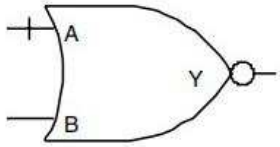
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00058	-0.00058	-0.00057

NOR2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X3H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X3H7L	0.00163	0.00165	0.06412

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X3H7L	0.00000	1.56202	5.35706

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7L	A->Y (FR)	0.01983	0.17139	0.63191
	B->Y (FR)	0.01636	0.16966	0.64087

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7L	A->Y (RF)	-0.01513	0.06515	0.30565
	B->Y (RF)	-0.02984	0.06193	0.30304

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7L	A	0.00161	0.00193	0.00408
	A	-0.00012	-0.00012	-0.00012
	A	0.00009	0.00009	0.00009
	A	-0.00027	0.00006	0.00220
	B	0.00112	0.00157	0.00417
	B	-0.00004	-0.00004	-0.00003
	B	0.00009	0.00009	0.00009
	B	-0.00031	0.00016	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7L	A	-0.00020	0.00016	0.00219
	A	0.00012	0.00012	0.00012
	A	-0.00009	-0.00009	-0.00009
	A	0.00144	0.00196	0.00402
	B	-0.00020	0.00022	0.00260
	B	0.00003	0.00004	0.00006
	B	-0.00009	-0.00009	-0.00009
	B	0.00112	0.00161	0.00404

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7L	(B * !Y)	-0.00028	-0.00025	-0.00021
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00054	0.00056	0.00060

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7L	(B * !Y)	0.00030	0.00031	0.00031
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00053	-0.00053	-0.00053

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00000	0.00001	0.00001
	(A * !Y)	0.00064	0.00064	0.00064

Passive power(pJ) for B falling (conditional):

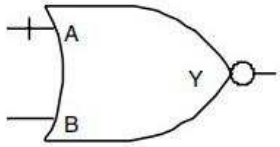
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	-0.00064	-0.00064	-0.00064

NOR2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X4H7L	0.00268	0.00286	0.09086

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X4H7L	0.00000	2.55805	8.72643

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7L	A->Y (FR)	0.02096	0.17132	0.62662
	B->Y (FR)	0.01762	0.17005	0.63760

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7L	A->Y (RF)	-0.01432	0.06606	0.30627
	B->Y (RF)	-0.02935	0.06285	0.30359

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7L	A	0.00263	0.00312	0.00643
	A	-0.00017	-0.00017	-0.00016
	A	0.00012	0.00012	0.00012
	A	-0.00047	0.00004	0.00333
	B	0.00188	0.00257	0.00651
	B	-0.00006	-0.00006	-0.00005
	B	0.00012	0.00012	0.00012
	B	-0.00059	0.00014	0.00403

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7L	A	-0.00030	0.00026	0.00338
	A	0.00016	0.00017	0.00017
	A	-0.00012	-0.00012	-0.00011
	A	0.00259	0.00325	0.00640
	B	-0.00027	0.00038	0.00399
	B	0.00005	0.00006	0.00008
	B	-0.00012	-0.00012	-0.00012
	B	0.00200	0.00281	0.00647

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7L	(B * !Y)	-0.00042	-0.00038	-0.00030
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00094	0.00098	0.00103

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7L	(B * !Y)	0.00047	0.00047	0.00047
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00093	-0.00092	-0.00092

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00118	0.00119	0.00119

Passive power(pJ) for B falling (conditional):

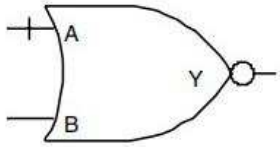
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	-0.00119	-0.00119	-0.00118

NOR2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X6H7L	0.00319	0.00333	0.12750

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X6H7L	0.00000	3.12403	10.71410

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7L	A->Y (FR)	0.01819	0.16954	0.62947
	B->Y (FR)	0.01522	0.16858	0.64110

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7L	A->Y (RF)	-0.01889	0.06398	0.30397
	B->Y (RF)	-0.03333	0.06103	0.30210

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7L	A	0.00321	0.00386	0.00832
	A	-0.00026	-0.00025	-0.00024
	A	0.00017	0.00018	0.00018
	A	-0.00056	0.00011	0.00453
	B	0.00229	0.00321	0.00849
	B	-0.00008	-0.00008	-0.00004
	B	0.00017	0.00018	0.00018
	B	-0.00064	0.00032	0.00555

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7L	A	-0.00041	0.00033	0.00444
	A	0.00024	0.00025	0.00026
	A	-0.00018	-0.00018	-0.00017
	A	0.00294	0.00396	0.00814
	B	-0.00036	0.00049	0.00532
	B	0.00004	0.00008	0.00011
	B	-0.00018	-0.00018	-0.00017
	B	0.00234	0.00337	0.00827

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7L	(B * !Y)	-0.00056	-0.00050	-0.00042
	(B * !Y)	-0.00003	-0.00003	-0.00002
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00107	0.00112	0.00119

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7L	(B * !Y)	0.00061	0.00061	0.00062
	(B * !Y)	0.00002	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00107	-0.00105	-0.00105

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00006	-0.00006	-0.00006
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00132	0.00133	0.00133

Passive power(pJ) for B falling (conditional):

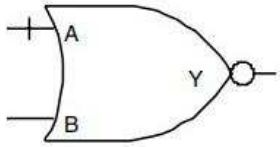
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00006	0.00006	0.00006
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00133	-0.00132	-0.00132

NOR2X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X8H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X8H7L	0.00380	0.00390	0.16297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X8H7L	0.00000	3.84056	13.17460

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7L	A->Y (FR)	0.01691	0.16849	0.63132
	B->Y (FR)	0.01386	0.16751	0.64236

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7L	A->Y (RF)	-0.02179	0.06260	0.30172
	B->Y (RF)	-0.03663	0.05953	0.29908

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7L	A	0.00386	0.00470	0.01034
	A	-0.00033	-0.00033	-0.00032
	A	0.00023	0.00023	0.00023
	A	-0.00065	0.00021	0.00582
	B	0.00272	0.00387	0.01060
	B	-0.00011	-0.00011	-0.00008
	B	0.00023	0.00023	0.00023
	B	-0.00072	0.00049	0.00715

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7L	A	-0.00052	0.00040	0.00558
	A	0.00032	0.00033	0.00033
	A	-0.00023	-0.00023	-0.00023
	A	0.00345	0.00474	0.01000
	B	-0.00049	0.00059	0.00672
	B	0.00008	0.00011	0.00017
	B	-0.00023	-0.00023	-0.00022
	B	0.00272	0.00394	0.01017

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7L	(B * !Y)	-0.00072	-0.00065	-0.00055
	(B * !Y)	-0.00004	-0.00003	-0.00003
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00119	0.00125	0.00136

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7L	(B * !Y)	0.00078	0.00078	0.00079
	(B * !Y)	0.00003	0.00003	0.00004
	(B * !Y)	-0.00002	-0.00001	-0.00001
	(B * !Y)	-0.00118	-0.00117	-0.00117

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00009	-0.00009	-0.00008
	(A * !Y)	0.00001	0.00002	0.00002
	(A * !Y)	0.00147	0.00148	0.00149

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7L	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00009	0.00009	0.00009
	(A * !Y)	-0.00002	-0.00001	-0.00001
	(A * !Y)	-0.00149	-0.00148	-0.00147

NOR3BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P5H7L	0.00083	0.00067	0.00077	0.01532

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P5H7L	0.00000	1.13303	3.49425

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7L	AN->Y (RR)	0.05654	0.16921	0.45515
	B->Y (FR)	0.04500	0.19422	0.63097
	C->Y (FR)	0.04233	0.19209	0.63129

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7L	AN->Y (FF)	0.02925	0.08381	0.21807
	B->Y (RF)	-0.00275	0.05545	0.23389
	C->Y (RF)	-0.01162	0.05362	0.23245

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	AN	0.00080	0.00108	0.00200
	AN	-0.00006	-0.00006	-0.00005
	AN	0.00003	0.00003	0.00003
	AN	0.00093	0.00121	0.00214
	B	0.00076	0.00086	0.00143
	B	-0.00004	-0.00004	-0.00002
	B	0.00005	0.00005	0.00005
	B	0.00001	0.00011	0.00068
	C	0.00067	0.00080	0.00149
	C	-0.00001	-0.00001	-0.00000
	C	0.00005	0.00005	0.00005
	C	0.00001	0.00015	0.00084

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	AN	0.00082	0.00114	0.00220
	AN	0.00005	0.00006	0.00006
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00066	0.00098	0.00204
	B	-0.00006	0.00006	0.00065
	B	0.00002	0.00004	0.00004
	B	-0.00005	-0.00005	-0.00005
	B	0.00066	0.00079	0.00140
	C	-0.00006	0.00007	0.00075
	C	0.00000	0.00002	0.00003
	C	-0.00005	-0.00005	-0.00004
	C	0.00057	0.00071	0.00140

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(B * C * !Y)	-0.00000	0.00028	0.00121
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00066	0.00093	0.00187
	(B * !C * !Y) + (!B * C * !Y)	0.00001	0.00028	0.00121
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00066	0.00094	0.00187

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(B * C * !Y)	0.00072	0.00103	0.00204
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00005	0.00036	0.00138
	(B * !C * !Y) + (!B * C * !Y)	0.00072	0.00103	0.00204
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00036	0.00138

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(AN * C * !Y)	-0.00010	-0.00009	-0.00008
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00023	0.00024	0.00024
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00021	0.00021	0.00021
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(AN * C * !Y)	0.00010	0.00010	0.00010
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00023	-0.00023	-0.00023
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00003	0.00003	0.00003
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00002	0.00002	0.00002
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00029	0.00029	0.00029
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00029	-0.00029	-0.00029
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00029	-0.00029	-0.00028

NOR3BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P7H7L	0.00082	0.00072	0.00079	0.01777

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P7H7L	0.00000	1.16397	3.70962

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7L	AN->Y (RR)	0.05327	0.17012	0.46572
	B->Y (FR)	0.04130	0.19400	0.64040
	C->Y (FR)	0.03758	0.19088	0.64010

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7L	AN->Y (FF)	0.02907	0.08468	0.22139
	B->Y (RF)	-0.00653	0.05470	0.23743
	C->Y (RF)	-0.01597	0.05258	0.23564

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	AN	0.00084	0.00112	0.00205
	AN	-0.00007	-0.00006	-0.00006
	AN	0.00004	0.00004	0.00004
	AN	0.00093	0.00121	0.00213
	B	0.00079	0.00091	0.00155
	B	-0.00005	-0.00005	-0.00005
	B	0.00005	0.00005	0.00005
	B	-0.00000	0.00011	0.00075
	C	0.00068	0.00083	0.00162
	C	-0.00002	-0.00002	0.00000
	C	0.00005	0.00005	0.00005
	C	-0.00000	0.00016	0.00094

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	AN	0.00087	0.00118	0.00224
	AN	0.00006	0.00006	0.00007
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00075	0.00106	0.00213
	B	-0.00007	0.00006	0.00073
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00069	0.00084	0.00152
	C	-0.00006	0.00008	0.00085
	C	0.00000	0.00002	0.00002
	C	-0.00005	-0.00005	-0.00005
	C	0.00059	0.00075	0.00153

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(B * C * !Y)	0.00001	0.00028	0.00120
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !Y)	0.00066	0.00093	0.00185
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00029	0.00121
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !Y) + (!B * C * !Y)	0.00066	0.00093	0.00186

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(B * C * !Y)	0.00075	0.00105	0.00206
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00010	0.00040	0.00141
	(B * !C * !Y) + (!B * C * !Y)	0.00076	0.00106	0.00206
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00010	0.00040	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(AN * C * !Y)	-0.00010	-0.00010	-0.00008
	(AN * C * !Y)	-0.00001	-0.00000	-0.00000
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00025	0.00025	0.00026
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00004	-0.00003	-0.00003
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00023	0.00023	0.00023
	(!AN * !C * !Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(AN * C * !Y)	0.00011	0.00011	0.00011
	(AN * C * !Y)	0.00000	0.00000	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00025	-0.00024	-0.00024
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00003	0.00003	0.00004
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00002	0.00002	0.00002
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00022	-0.00022	-0.00022

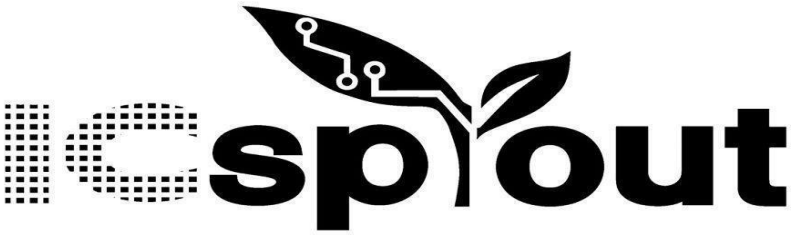
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00029	0.00030	0.00030
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00030	-0.00030	-0.00029
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00030	-0.00030	-0.00029

NOR3BX1H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1H7L	0.00087	0.00078	0.00093	0.02114

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1H7L	0.00000	1.21602	4.07073

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7L	AN->Y (RR)	0.04990	0.16954	0.46954
	B->Y (FR)	0.03642	0.19034	0.64206
	C->Y (FR)	0.03316	0.18757	0.64208

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7L	AN->Y (FF)	0.02985	0.08704	0.22690
	B->Y (RF)	-0.01067	0.05374	0.24005
	C->Y (RF)	-0.02050	0.05168	0.23801

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7L	AN	0.00092	0.00119	0.00210
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00005	0.00005	0.00005
	AN	0.00097	0.00124	0.00214
	B	0.00085	0.00097	0.00174
	B	-0.00006	-0.00006	-0.00004
	B	0.00006	0.00006	0.00006
	B	-0.00005	0.00008	0.00084
	C	0.00071	0.00089	0.00183
	C	-0.00002	-0.00002	0.00000
	C	0.00006	0.00006	0.00006
	C	-0.00006	0.00013	0.00105

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7L	AN	0.00095	0.00126	0.00233
	AN	0.00008	0.00008	0.00008
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00087	0.00117	0.00224
	B	-0.00009	0.00007	0.00085
	B	0.00004	0.00006	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00076	0.00095	0.00174
	C	-0.00008	0.00009	0.00099
	C	0.00000	0.00002	0.00002
	C	-0.00006	-0.00006	-0.00006
	C	0.00069	0.00085	0.00177

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(B * C * !Y)	0.00002	0.00028	0.00119
	(B * C * !Y)	0.00002	0.00002	0.00003
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00072	0.00098	0.00189
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00030	0.00120
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00073	0.00099	0.00189

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(B * C * !Y)	0.00084	0.00112	0.00211
	(B * C * !Y)	-0.00003	-0.00002	-0.00002
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00013	0.00042	0.00140
	(B * !C * !Y) + (!B * C * !Y)	0.00084	0.00112	0.00211
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00013	0.00042	0.00140

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(AN * C * !Y)	-0.00012	-0.00011	-0.00010
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00026	0.00027	0.00029
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00023	0.00023	0.00023
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(AN * C * !Y)	0.00013	0.00013	0.00013
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00026	-0.00026	-0.00026
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00023	-0.00023	-0.00023
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	0.00003	0.00003	0.00003
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00034	0.00034	0.00034
	(!AN * !B * !Y)	-0.00001	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00034	-0.00034	-0.00034
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00001	0.00002	0.00002
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00034	-0.00034	-0.00034

NOR3BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1P4H7L	0.00082	0.00085	0.00095	0.02405

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1P4H7L	0.00000	1.27399	4.47461

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7L	AN->Y (RR)	0.04717	0.16735	0.46875
	B->Y (FR)	0.03460	0.18913	0.64446
	C->Y (FR)	0.03056	0.18560	0.64261

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7L	AN->Y (FF)	0.02852	0.08538	0.22465
	B->Y (RF)	-0.01343	0.05273	0.23873
	C->Y (RF)	-0.02369	0.05043	0.23683

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	AN	0.00103	0.00130	0.00221
	AN	-0.00010	-0.00010	-0.00010
	AN	0.00006	0.00006	0.00006
	AN	0.00096	0.00123	0.00214
	B	0.00094	0.00108	0.00196
	B	-0.00008	-0.00007	-0.00003
	B	0.00007	0.00007	0.00008
	B	-0.00005	0.00010	0.00097
	C	0.00077	0.00097	0.00204
	C	-0.00002	-0.00002	-0.00002
	C	0.00007	0.00007	0.00007
	C	-0.00005	0.00016	0.00122

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	AN	0.00091	0.00122	0.00231
	AN	0.00010	0.00010	0.00010
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00094	0.00125	0.00234
	B	-0.00012	0.00008	0.00095
	B	0.00003	0.00007	0.00010
	B	-0.00007	-0.00007	-0.00007
	B	0.00085	0.00104	0.00193
	C	-0.00009	0.00011	0.00113
	C	0.00002	0.00002	0.00003
	C	-0.00007	-0.00007	-0.00007
	C	0.00072	0.00091	0.00195

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(B * C * !Y)	0.00004	0.00031	0.00122
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00070	0.00096	0.00188
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00032	0.00123
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00070	0.00097	0.00188

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(B * C * !Y)	0.00079	0.00108	0.00207
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00013	0.00042	0.00141
	(B * !C * !Y) + (!B * C * !Y)	0.00079	0.00108	0.00207
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00013	0.00042	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(AN * C * !Y)	-0.00014	-0.00013	-0.00011
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00028	0.00028	0.00031
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00026	0.00026	0.00026
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(AN * C * !Y)	0.00015	0.00015	0.00016
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00027	-0.00027	-0.00027
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00025	-0.00025	-0.00025
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00003	0.00003	0.00003
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00035	0.00035	0.00035
	(!AN * !B * !Y)	-0.00001	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	0.00000	0.00000	0.00001
	(!AN * !B * !Y)	0.00035	0.00035	0.00036

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00035	-0.00035	-0.00035
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00002	0.00002	0.00003
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00035	-0.00035	-0.00034

NOR3BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX2H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX2H7L	0.00084	0.00119	0.00143	0.02912

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX2H7L	0.00000	1.57372	6.76577

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7L	AN->Y (RR)	0.05524	0.18293	0.49782
	B->Y (FR)	0.03907	0.19907	0.66493
	C->Y (FR)	0.03553	0.19623	0.66446

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7L	AN->Y (FF)	0.03367	0.09250	0.23407
	B->Y (RF)	-0.02150	0.04924	0.22410
	C->Y (RF)	-0.03154	0.04725	0.22231

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7L	AN	0.00150	0.00176	0.00262
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00008	0.00008	0.00008
	AN	0.00120	0.00146	0.00232
	B	0.00136	0.00154	0.00262
	B	-0.00008	-0.00008	-0.00008
	B	0.00009	0.00009	0.00009
	B	-0.00003	0.00015	0.00122
	C	0.00117	0.00142	0.00274
	C	-0.00003	-0.00003	-0.00002
	C	0.00009	0.00009	0.00010
	C	-0.00005	0.00021	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7L	AN	0.00122	0.00151	0.00260
	AN	0.00012	0.00012	0.00012
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00145	0.00176	0.00285
	B	-0.00011	0.00010	0.00119
	B	0.00008	0.00008	0.00008
	B	-0.00009	-0.00009	-0.00009
	B	0.00118	0.00146	0.00256
	C	-0.00012	0.00012	0.00138
	C	0.00002	0.00003	0.00003
	C	-0.00009	-0.00009	-0.00009
	C	0.00108	0.00133	0.00260

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(B * C * !Y)	0.00007	0.00031	0.00117
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00075	0.00100	0.00186
	(B * !C * !Y) + (!B * C * !Y)	0.00009	0.00033	0.00119
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00076	0.00100	0.00186

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(B * C * !Y)	0.00101	0.00128	0.00221
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00031	0.00059	0.00153
	(B * !C * !Y) + (!B * C * !Y)	0.00101	0.00128	0.00222
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00032	0.00059	0.00153

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(AN * C * !Y)	-0.00018	-0.00016	-0.00014
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00041	0.00042	0.00045
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * C * !Y)	0.00000	0.00000	0.00001
	(!AN * C * !Y)	0.00039	0.00039	0.00039
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	0.00000	0.00000	0.00001
	(!AN * !C * !Y)	0.00038	0.00038	0.00039

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(AN * C * !Y)	0.00019	0.00020	0.00020
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00041	-0.00041	-0.00040
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	0.00006	0.00006	0.00006
	(!AN * C * !Y)	-0.00001	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00038	-0.00038	-0.00037
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	-0.00001	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00038	-0.00038	-0.00038

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00001
	(B * !Y)	0.00055	0.00055	0.00056
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00055	0.00056	0.00056

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00000	-0.00000
	(B * !Y)	-0.00055	-0.00055	-0.00054
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00002	0.00002	0.00003
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00056	-0.00055	-0.00055

NOR3BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX3H7L	0.00098	0.00163	0.00167	0.04281

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX3H7L	0.00000	1.93466	8.28981

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7L	AN->Y (RR)	0.04942	0.17272	0.47476
	B->Y (FR)	0.03329	0.18569	0.63778
	C->Y (FR)	0.02509	0.17846	0.63257

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7L	AN->Y (FF)	0.03117	0.09140	0.23472
	B->Y (RF)	-0.01838	0.05061	0.23327
	C->Y (RF)	-0.03255	0.04705	0.23007

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7L	AN	0.00228	0.00261	0.00369
	AN	-0.00018	-0.00018	-0.00018
	AN	0.00012	0.00012	0.00012
	AN	0.00166	0.00199	0.00306
	B	0.00195	0.00221	0.00385
	B	-0.00013	-0.00012	-0.00007
	B	0.00013	0.00014	0.00014
	B	0.00003	0.00030	0.00194
	C	0.00138	0.00177	0.00387
	C	-0.00004	-0.00004	-0.00003
	C	0.00013	0.00014	0.00014
	C	-0.00010	0.00031	0.00239

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7L	AN	0.00152	0.00189	0.00330
	AN	0.00018	0.00018	0.00018
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00204	0.00242	0.00382
	B	-0.00019	0.00012	0.00176
	B	0.00007	0.00012	0.00014
	B	-0.00014	-0.00014	-0.00013
	B	0.00161	0.00197	0.00363
	C	-0.00016	0.00022	0.00217
	C	0.00003	0.00004	0.00006
	C	-0.00014	-0.00013	-0.00013
	C	0.00128	0.00167	0.00366

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(B * C * !Y)	0.00016	0.00047	0.00155
	(B * C * !Y)	0.00004	0.00005	0.00005
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00097	0.00127	0.00236
	(B * !C * !Y) + (!B * C * !Y)	0.00019	0.00050	0.00158
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00098	0.00128	0.00236

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(B * C * !Y)	0.00119	0.00153	0.00270
	(B * C * !Y)	-0.00005	-0.00005	-0.00004
	(B * C * !Y)	0.00002	0.00002	0.00003
	(B * C * !Y)	0.00037	0.00071	0.00189
	(B * !C * !Y) + (!B * C * !Y)	0.00120	0.00154	0.00270
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00038	0.00072	0.00189

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(AN * C * !Y)	-0.00035	-0.00032	-0.00026
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00047	0.00049	0.00055
	(!AN * C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00051	0.00052	0.00052
	(!AN * !C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !C * !Y)	-0.00006	-0.00006	-0.00005
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00050	0.00051	0.00051

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(AN * C * !Y)	0.00037	0.00037	0.00037
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	-0.00001	-0.00000	0.00000
	(AN * C * !Y)	-0.00047	-0.00046	-0.00045
	(!AN * C * !Y)	0.00007	0.00007	0.00007
	(!AN * C * !Y)	0.00008	0.00008	0.00008
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !Y)	-0.00051	-0.00051	-0.00050
	(!AN * !C * !Y)	0.00007	0.00007	0.00007
	(!AN * !C * !Y)	0.00006	0.00006	0.00006
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !Y)	-0.00051	-0.00050	-0.00050

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00065	0.00065	0.00065
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00004	-0.00003	-0.00003
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00064	0.00064	0.00065

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7L	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00065	-0.00064	-0.00063
	(!AN * !B * !Y)	0.00001	0.00002	0.00002
	(!AN * !B * !Y)	0.00003	0.00003	0.00004
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00064	-0.00063	-0.00063

NOR3BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX4H7L	0.00098	0.00230	0.00242	0.05734

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX4H7L	0.00000	2.53447	11.86430

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7L	AN->Y (RR)	0.05053	0.17519	0.47932
	B->Y (FR)	0.03357	0.18571	0.63502
	C->Y (FR)	0.02671	0.18005	0.63511

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7L	AN->Y (FF)	0.03353	0.09616	0.24408
	B->Y (RF)	-0.01958	0.05012	0.23086
	C->Y (RF)	-0.03273	0.04695	0.22833

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7L	AN	0.00326	0.00363	0.00482
	AN	-0.00025	-0.00024	-0.00024
	AN	0.00016	0.00016	0.00016
	AN	0.00205	0.00242	0.00358
	B	0.00276	0.00314	0.00544
	B	-0.00017	-0.00017	-0.00016
	B	0.00018	0.00018	0.00018
	B	0.00000	0.00039	0.00267
	C	0.00210	0.00264	0.00550
	C	-0.00006	-0.00005	-0.00003
	C	0.00018	0.00018	0.00018
	C	-0.00009	0.00047	0.00330

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7L	AN	0.00192	0.00233	0.00398
	AN	0.00024	0.00024	0.00025
	AN	-0.00016	-0.00016	-0.00016
	AN	0.00295	0.00341	0.00505
	B	-0.00028	0.00016	0.00243
	B	0.00016	0.00017	0.00019
	B	-0.00018	-0.00018	-0.00018
	B	0.00232	0.00284	0.00514
	C	-0.00023	0.00029	0.00297
	C	0.00003	0.00006	0.00006
	C	-0.00018	-0.00018	-0.00017
	C	0.00188	0.00245	0.00517

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(B * C * !Y)	0.00026	0.00060	0.00177
	(B * C * !Y)	0.00005	0.00006	0.00006
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00108	0.00141	0.00259
	(B * !C * !Y) + (!B * C * !Y)	0.00031	0.00064	0.00181
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00109	0.00143	0.00260

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(B * C * !Y)	0.00146	0.00183	0.00310
	(B * C * !Y)	-0.00006	-0.00006	-0.00005
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00062	0.00099	0.00228
	(B * !C * !Y) + (!B * C * !Y)	0.00147	0.00183	0.00310
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00063	0.00100	0.00228

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(AN * C * !Y)	-0.00048	-0.00044	-0.00036
	(AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00071	0.00074	0.00078
	(!AN * C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * C * !Y)	-0.00012	-0.00012	-0.00011
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00077	0.00078	0.00078
	(!AN * !C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00076	0.00076	0.00077

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(AN * C * !Y)	0.00051	0.00051	0.00052
	(AN * C * !Y)	0.00002	0.00002	0.00002
	(AN * C * !Y)	-0.00001	-0.00001	0.00000
	(AN * C * !Y)	-0.00070	-0.00069	-0.00068
	(!AN * C * !Y)	0.00008	0.00008	0.00008
	(!AN * C * !Y)	0.00011	0.00012	0.00012
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !Y)	-0.00076	-0.00076	-0.00075
	(!AN * !C * !Y)	0.00008	0.00008	0.00008
	(!AN * !C * !Y)	0.00008	0.00008	0.00008
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00076	-0.00076	-0.00075

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00095	0.00096	0.00096
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	-0.00004	-0.00004	-0.00001
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00096	0.00096	0.00097

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7L	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00004	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00096	-0.00096	-0.00094
	(!AN * !B * !Y)	0.00002	0.00003	0.00004
	(!AN * !B * !Y)	0.00001	0.00004	0.00005
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00096	-0.00095	-0.00093

NOR3BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX6H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX6H7L	0.00114	0.00291	0.00298	0.08154

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX6H7L	0.00000	3.13443	15.14030

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7L	AN->Y (RR)	0.04659	0.17277	0.48032
	B->Y (FR)	0.02943	0.18249	0.63766
	C->Y (FR)	0.02291	0.17705	0.63556

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7L	AN->Y (FF)	0.03277	0.09571	0.24362
	B->Y (RF)	-0.02392	0.04844	0.23057
	C->Y (RF)	-0.03704	0.04525	0.22722

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7L	AN	0.00416	0.00460	0.00601
	AN	-0.00037	-0.00037	-0.00036
	AN	0.00024	0.00024	0.00024
	AN	0.00246	0.00290	0.00424
	B	0.00349	0.00401	0.00725
	B	-0.00026	-0.00024	-0.00013
	B	0.00026	0.00027	0.00027
	B	-0.00006	0.00048	0.00370
	C	0.00263	0.00339	0.00741
	C	-0.00009	-0.00008	-0.00006
	C	0.00026	0.00027	0.00027
	C	-0.00008	0.00070	0.00468

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7L	AN	0.00230	0.00281	0.00487
	AN	0.00036	0.00037	0.00037
	AN	-0.00024	-0.00024	-0.00024
	AN	0.00381	0.00434	0.00639
	B	-0.00035	0.00026	0.00339
	B	0.00013	0.00024	0.00027
	B	-0.00027	-0.00026	-0.00026
	B	0.00303	0.00368	0.00686
	C	-0.00033	0.00039	0.00413
	C	0.00006	0.00008	0.00009
	C	-0.00027	-0.00026	-0.00026
	C	0.00223	0.00307	0.00685

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(B * C * !Y)	0.00038	0.00076	0.00212
	(B * C * !Y)	0.00007	0.00008	0.00008
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00134	0.00173	0.00309
	(B * !C * !Y) + (!B * C * !Y)	0.00044	0.00082	0.00217
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00006	0.00006
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00137	0.00175	0.00310

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(B * C * !Y)	0.00171	0.00213	0.00361
	(B * C * !Y)	-0.00008	-0.00008	-0.00007
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	0.00072	0.00114	0.00263
	(B * !C * !Y) + (!B * C * !Y)	0.00172	0.00214	0.00361
	(B * !C * !Y) + (!B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00072	0.00115	0.00264

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(AN * C * !Y)	-0.00063	-0.00057	-0.00047
	(AN * C * !Y)	-0.00003	-0.00003	-0.00002
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00083	0.00087	0.00094
	(!AN * C * !Y)	-0.00010	-0.00010	-0.00009
	(!AN * C * !Y)	-0.00017	-0.00017	-0.00017
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00088	0.00089	0.00090
	(!AN * !C * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * !C * !Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00087	0.00088	0.00088

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(AN * C * !Y)	0.00067	0.00067	0.00068
	(AN * C * !Y)	0.00002	0.00003	0.00003
	(AN * C * !Y)	-0.00001	-0.00001	0.00001
	(AN * C * !Y)	-0.00083	-0.00082	-0.00082
	(!AN * C * !Y)	0.00009	0.00010	0.00010
	(!AN * C * !Y)	0.00017	0.00017	0.00017
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !Y)	-0.00087	-0.00087	-0.00086
	(!AN * !C * !Y)	0.00009	0.00009	0.00009
	(!AN * !C * !Y)	0.00011	0.00012	0.00012
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00087	-0.00087	-0.00086

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00109	0.00109	0.00109
	(!AN * !B * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !B * !Y)	-0.00007	-0.00007	-0.00006
	(!AN * !B * !Y)	0.00001	0.00001	0.00002
	(!AN * !B * !Y)	0.00109	0.00110	0.00110

Passive power(pJ) for C falling (conditional):

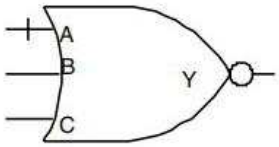
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7L	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00007	0.00007	0.00007
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00109	-0.00108	-0.00107
	(!AN * !B * !Y)	0.00003	0.00004	0.00005
	(!AN * !B * !Y)	0.00006	0.00007	0.00009
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00110	-0.00109	-0.00108

NOR3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P5H7L	0.00066	0.00070	0.00079	0.01532

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P5H7L	0.00000	0.47654	3.27215

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7L	A->Y (FR)	0.04591	0.18734	0.59116
	B->Y (FR)	0.04495	0.19422	0.63070
	C->Y (FR)	0.04240	0.19223	0.63151

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7L	A->Y (RF)	0.00586	0.05718	0.23628
	B->Y (RF)	-0.00266	0.05548	0.23418
	C->Y (RF)	-0.01139	0.05370	0.23290

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	A	0.00086	0.00096	0.00155
	A	-0.00007	-0.00007	-0.00007
	A	0.00005	0.00005	0.00005
	A	-0.00007	0.00002	0.00061
	B	0.00076	0.00086	0.00143
	B	-0.00004	-0.00004	-0.00004
	B	0.00005	0.00005	0.00005
	B	-0.00002	0.00009	0.00065
	C	0.00067	0.00081	0.00149
	C	-0.00002	-0.00001	-0.00000
	C	0.00005	0.00005	0.00005
	C	-0.00004	0.00010	0.00079

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	A	-0.00006	0.00006	0.00069
	A	0.00007	0.00007	0.00007
	A	-0.00005	-0.00005	-0.00005
	A	0.00083	0.00096	0.00160
	B	-0.00006	0.00006	0.00066
	B	0.00004	0.00004	0.00004
	B	-0.00005	-0.00005	-0.00005
	B	0.00069	0.00082	0.00143
	C	-0.00006	0.00007	0.00075
	C	0.00000	0.00001	0.00002
	C	-0.00005	-0.00005	-0.00004
	C	0.00063	0.00077	0.00146

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(B * C * !Y)	-0.00008	-0.00008	-0.00007
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00025	0.00026	0.00026
	(B * !C * !Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00025	0.00026	0.00026
	(!B * C * !Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(B * C * !Y)	0.00008	0.00008	0.00009
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00026	-0.00025	-0.00025
	(B * !C * !Y)	0.00009	0.00009	0.00009
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00026	-0.00025	-0.00025
	(!B * C * !Y)	0.00008	0.00009	0.00009
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00003	-0.00003	-0.00003
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00021	0.00021	0.00021
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00021	0.00021	0.00021
	(!A * C * !Y)	-0.00009	-0.00009	-0.00007
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00021	0.00021	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00003	0.00003	0.00003
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00021	-0.00021	-0.00021
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !Y)	0.00010	0.00010	0.00010
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00029	0.00029	0.00029
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

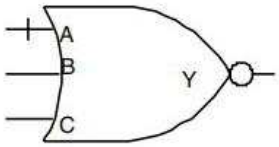
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00029	-0.00029	-0.00029
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00029	-0.00029	-0.00028

NOR3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P7H7L	0.00070	0.00072	0.00083	0.01741

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P7H7L	0.00000	0.50748	3.48752

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7L	A->Y (FR)	0.04230	0.18491	0.59311
	B->Y (FR)	0.04112	0.19147	0.63250
	C->Y (FR)	0.03797	0.18887	0.63268

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7L	A->Y (RF)	0.00219	0.05579	0.23579
	B->Y (RF)	-0.00647	0.05400	0.23406
	C->Y (RF)	-0.01574	0.05203	0.23241

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	A	0.00091	0.00102	0.00168
	A	-0.00008	-0.00008	-0.00008
	A	0.00005	0.00005	0.00005
	A	-0.00009	0.00002	0.00068
	B	0.00079	0.00090	0.00155
	B	-0.00005	-0.00005	-0.00005
	B	0.00005	0.00005	0.00005
	B	-0.00003	0.00008	0.00072
	C	0.00068	0.00084	0.00162
	C	-0.00002	-0.00002	0.00000
	C	0.00005	0.00005	0.00005
	C	-0.00006	0.00010	0.00087

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	A	-0.00007	0.00006	0.00077
	A	0.00008	0.00008	0.00008
	A	-0.00005	-0.00005	-0.00005
	A	0.00088	0.00103	0.00175
	B	-0.00007	0.00006	0.00073
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00072	0.00087	0.00155
	C	-0.00006	0.00008	0.00084
	C	0.00000	0.00002	0.00002
	C	-0.00005	-0.00005	-0.00005
	C	0.00066	0.00082	0.00159

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(B * C * !Y)	-0.00010	-0.00009	-0.00008
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00026	0.00026	0.00027
	(B * !C * !Y)	-0.00010	-0.00009	-0.00008
	(B * !C * !Y)	-0.00000	-0.00001	-0.00000
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00026	0.00026	0.00027
	(!B * C * !Y)	-0.00009	-0.00008	-0.00007
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(B * C * !Y)	0.00009	0.00010	0.00010
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00026	-0.00026	-0.00026
	(B * !C * !Y)	0.00010	0.00010	0.00010
	(B * !C * !Y)	0.00000	0.00001	0.00000
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00026	-0.00026	-0.00026
	(!B * C * !Y)	0.00010	0.00010	0.00010
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00004	-0.00003	-0.00003
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00021	0.00021	0.00022
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00021	0.00021	0.00021
	(!A * C * !Y)	-0.00010	-0.00010	-0.00008
	(!A * C * !Y)	-0.00001	-0.00000	-0.00000
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00021	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00003	0.00003	0.00004
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00021	-0.00021	-0.00021
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !Y)	0.00011	0.00011	0.00011
	(!A * C * !Y)	0.00000	0.00000	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00030	0.00030	0.00031
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for C falling (conditional):

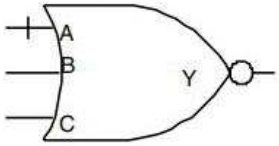
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00030	-0.00030	-0.00030
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00001	0.00002	0.00001
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00031	-0.00030	-0.00030

NOR3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1H7L	0.00075	0.00080	0.00091	0.02064

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1H7L	0.00000	0.55953	3.84862

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7L	A->Y (FR)	0.03865	0.18238	0.59450
	B->Y (FR)	0.03757	0.18887	0.63387
	C->Y (FR)	0.03422	0.18603	0.63353

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7L	A->Y (RF)	-0.00034	0.05522	0.23829
	B->Y (RF)	-0.00925	0.05344	0.23656
	C->Y (RF)	-0.01891	0.05138	0.23479

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7L	A	0.00102	0.00114	0.00192
	A	-0.00010	-0.00010	-0.00009
	A	0.00006	0.00006	0.00006
	A	-0.00011	0.00002	0.00079
	B	0.00088	0.00101	0.00177
	B	-0.00006	-0.00006	-0.00006
	B	0.00006	0.00006	0.00006
	B	-0.00005	0.00008	0.00083
	C	0.00075	0.00093	0.00185
	C	-0.00002	-0.00002	0.00000
	C	0.00006	0.00006	0.00006
	C	-0.00007	0.00011	0.00103

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7L	A	-0.00009	0.00007	0.00088
	A	0.00009	0.00010	0.00010
	A	-0.00006	-0.00006	-0.00006
	A	0.00097	0.00116	0.00198
	B	-0.00008	0.00007	0.00085
	B	0.00006	0.00006	0.00007
	B	-0.00006	-0.00006	-0.00006
	B	0.00081	0.00098	0.00177
	C	-0.00008	0.00009	0.00098
	C	0.00000	0.00002	0.00004
	C	-0.00006	-0.00006	-0.00006
	C	0.00073	0.00090	0.00181

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(B * C * !Y)	-0.00011	-0.00011	-0.00010
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00028	0.00028	0.00028
	(B * !C * !Y)	-0.00011	-0.00011	-0.00009
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00028	0.00028	0.00028
	(!B * C * !Y)	-0.00011	-0.00010	-0.00008
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(B * C * !Y)	0.00011	0.00011	0.00011
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00028	-0.00028	-0.00028
	(B * !C * !Y)	0.00012	0.00012	0.00012
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00028	-0.00028	-0.00027
	(!B * C * !Y)	0.00011	0.00012	0.00012
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00004	-0.00004	-0.00004
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00024	0.00024	0.00024
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00024	0.00024	0.00024
	(!A * C * !Y)	-0.00012	-0.00011	-0.00010
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00023	0.00024	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00004	0.00004	0.00004
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00024	-0.00023	-0.00023
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00003	0.00003	0.00003
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00024	-0.00023	-0.00023
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00033	0.00033	0.00033
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00032	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

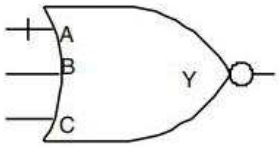
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00033	-0.00033	-0.00032
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00033	-0.00033	-0.00032

NOR3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1P4H7L	0.00082	0.00087	0.00098	0.02354

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1P4H7L	0.00000	0.61750	4.25250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7L	A->Y (FR)	0.03611	0.18066	0.59628
	B->Y (FR)	0.03478	0.18686	0.63518
	C->Y (FR)	0.03105	0.18367	0.63522

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7L	A->Y (RF)	-0.00381	0.05400	0.23747
	B->Y (RF)	-0.01298	0.05212	0.23546
	C->Y (RF)	-0.02304	0.04995	0.23346

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	A	0.00111	0.00125	0.00214
	A	-0.00011	-0.00011	-0.00011
	A	0.00007	0.00007	0.00007
	A	-0.00013	0.00001	0.00090
	B	0.00094	0.00109	0.00196
	B	-0.00007	-0.00007	-0.00005
	B	0.00007	0.00007	0.00007
	B	-0.00008	0.00007	0.00094
	C	0.00079	0.00099	0.00205
	C	-0.00002	-0.00002	-0.00002
	C	0.00007	0.00007	0.00007
	C	-0.00011	0.00010	0.00116

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	A	-0.00010	0.00007	0.00099
	A	0.00011	0.00011	0.00011
	A	-0.00007	-0.00007	-0.00007
	A	0.00105	0.00127	0.00219
	B	-0.00009	0.00008	0.00096
	B	0.00005	0.00007	0.00008
	B	-0.00007	-0.00007	-0.00007
	B	0.00088	0.00108	0.00197
	C	-0.00009	0.00011	0.00112
	C	0.00002	0.00002	0.00003
	C	-0.00007	-0.00007	-0.00007
	C	0.00079	0.00099	0.00202

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(B * C * !Y)	-0.00013	-0.00012	-0.00011
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00029	0.00029	0.00029
	(B * !C * !Y)	-0.00013	-0.00012	-0.00011
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00029	0.00029	0.00029
	(!B * C * !Y)	-0.00013	-0.00012	-0.00010
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(B * C * !Y)	0.00013	0.00013	0.00013
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00029	-0.00029	-0.00029
	(B * !C * !Y)	0.00014	0.00014	0.00014
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00029	-0.00029	-0.00029
	(!B * C * !Y)	0.00013	0.00013	0.00013
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00005	-0.00005	-0.00005
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00025	0.00025	0.00026
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00025	0.00025	0.00025
	(!A * C * !Y)	-0.00014	-0.00013	-0.00010
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00005	0.00005	0.00005
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00025	-0.00025	-0.00025
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00003	0.00003	0.00003
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00025	-0.00025	-0.00025
	(!A * C * !Y)	0.00015	0.00015	0.00015
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00035	0.00036	0.00036
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	0.00000	0.00000	0.00001
	(A * !B * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for C falling (conditional):

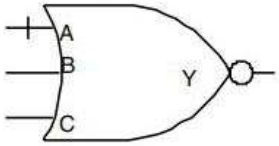
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00036	-0.00035	-0.00035
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00036	-0.00035	-0.00034

NOR3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X2H7L	0.00119	0.00117	0.00130	0.02751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X2H7L	0.00000	0.91723	6.54365

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7L	A->Y (FR)	0.03927	0.18489	0.60128
	B->Y (FR)	0.03756	0.19077	0.64014
	C->Y (FR)	0.03341	0.18757	0.64033

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7L	A->Y (RF)	-0.01394	0.04881	0.21653
	B->Y (RF)	-0.02328	0.04683	0.21438
	C->Y (RF)	-0.03327	0.04470	0.21236

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7L	A	0.00150	0.00168	0.00281
	A	-0.00013	-0.00013	-0.00013
	A	0.00009	0.00009	0.00009
	A	-0.00023	-0.00005	0.00108
	B	0.00129	0.00148	0.00258
	B	-0.00008	-0.00008	-0.00008
	B	0.00009	0.00009	0.00009
	B	-0.00014	0.00005	0.00114
	C	0.00108	0.00135	0.00268
	C	-0.00003	-0.00003	-0.00002
	C	0.00009	0.00009	0.00009
	C	-0.00017	0.00009	0.00142

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7L	A	-0.00012	0.00010	0.00125
	A	0.00013	0.00013	0.00013
	A	-0.00009	-0.00009	-0.00009
	A	0.00149	0.00177	0.00293
	B	-0.00012	0.00010	0.00119
	B	0.00008	0.00008	0.00008
	B	-0.00009	-0.00009	-0.00009
	B	0.00123	0.00150	0.00261
	C	-0.00011	0.00014	0.00141
	C	0.00003	0.00003	0.00003
	C	-0.00009	-0.00009	-0.00009
	C	0.00113	0.00138	0.00267

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(B * C * !Y)	-0.00016	-0.00015	-0.00013
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00001
	(B * C * !Y)	0.00047	0.00047	0.00047
	(B * !C * !Y)	-0.00016	-0.00015	-0.00013
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00000	0.00001
	(B * !C * !Y)	0.00047	0.00047	0.00048
	(!B * C * !Y)	-0.00016	-0.00014	-0.00012
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00047	0.00047	0.00048

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(B * C * !Y)	0.00016	0.00016	0.00016
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00047	-0.00047	-0.00046
	(B * !C * !Y)	0.00017	0.00017	0.00017
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00047	-0.00047	-0.00047
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00047	-0.00047	-0.00046

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00006	-0.00006	-0.00006
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00039	0.00039	0.00039
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00039	0.00039	0.00039
	(!A * C * !Y)	-0.00018	-0.00017	-0.00014
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00039	0.00040	0.00043

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00006	0.00006	0.00006
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00039	-0.00039	-0.00039
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00004	0.00004	0.00004
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00039	-0.00039	-0.00039
	(!A * C * !Y)	0.00019	0.00019	0.00020
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00039	-0.00038	-0.00038

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00051	0.00052	0.00052
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	0.00000	0.00000	0.00001
	(A * !B * !Y)	0.00051	0.00051	0.00052

Passive power(pJ) for C falling (conditional):

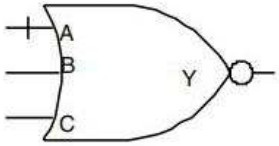
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00052	-0.00051	-0.00051
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00052	-0.00051	-0.00050

NOR3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X3H7L	0.00163	0.00163	0.00176	0.04284

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X3H7L	0.00000	1.16576	8.03504

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7L	A->Y (FR)	0.03547	0.18079	0.59742
	B->Y (FR)	0.03326	0.18534	0.63592
	C->Y (FR)	0.02689	0.18011	0.63524

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7L	A->Y (RF)	-0.00734	0.05303	0.23580
	B->Y (RF)	-0.01775	0.05076	0.23341
	C->Y (RF)	-0.03052	0.04776	0.23099

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7L	A	0.00237	0.00262	0.00426
	A	-0.00020	-0.00020	-0.00020
	A	0.00013	0.00014	0.00014
	A	-0.00015	0.00010	0.00174
	B	0.00192	0.00219	0.00384
	B	-0.00013	-0.00012	-0.00011
	B	0.00013	0.00014	0.00014
	B	-0.00014	0.00014	0.00178
	C	0.00144	0.00183	0.00389
	C	-0.00005	-0.00004	-0.00004
	C	0.00013	0.00014	0.00014
	C	-0.00025	0.00015	0.00220

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7L	A	-0.00020	0.00012	0.00182
	A	0.00020	0.00020	0.00020
	A	-0.00014	-0.00014	-0.00013
	A	0.00211	0.00251	0.00423
	B	-0.00020	0.00015	0.00179
	B	0.00011	0.00013	0.00018
	B	-0.00014	-0.00014	-0.00013
	B	0.00177	0.00215	0.00382
	C	-0.00023	0.00024	0.00218
	C	0.00004	0.00005	0.00036
	C	-0.00014	-0.00014	-0.00013
	C	0.00155	0.00193	0.00388

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(B * C * !Y)	-0.00028	-0.00026	-0.00022
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00052	0.00052	0.00053
	(B * !C * !Y)	-0.00028	-0.00026	-0.00021
	(B * !C * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00052	0.00053	0.00055
	(!B * C * !Y)	-0.00028	-0.00024	-0.00019
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00052	0.00053	0.00055

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(B * C * !Y)	0.00028	0.00028	0.00028
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00052	-0.00052	-0.00052
	(B * !C * !Y)	0.00030	0.00030	0.00031
	(B * !C * !Y)	0.00001	0.00002	0.00002
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00052	-0.00052	-0.00051
	(!B * C * !Y)	0.00028	0.00028	0.00029
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00052	-0.00052	-0.00052

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00008	-0.00008	-0.00008
	(A * C * !Y)	0.00000	0.00001	0.00001
	(A * C * !Y)	0.00052	0.00053	0.00053
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00052	0.00052	0.00052
	(!A * C * !Y)	-0.00035	-0.00032	-0.00026
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00046	0.00048	0.00052

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00008	0.00008	0.00008
	(A * C * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !Y)	-0.00052	-0.00052	-0.00052
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00005	0.00005	0.00005
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00052	-0.00052	-0.00051
	(!A * C * !Y)	0.00036	0.00036	0.00037
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	-0.00046	-0.00045	-0.00045

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00068	0.00069	0.00069
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00000	0.00001	0.00001
	(A * !B * !Y)	0.00068	0.00068	0.00069

Passive power(pJ) for C falling (conditional):

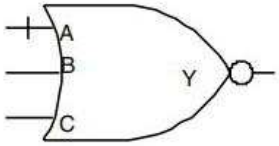
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00069	-0.00068	-0.00068
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !Y)	-0.00068	-0.00068	-0.00067

NOR3X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X4H7L	0.00255	0.00265	0.00278	0.06125

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X4H7L	0.00000	1.90615	13.08860

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7L	A->Y (FR)	0.03735	0.18172	0.59535
	B->Y (FR)	0.03524	0.18652	0.63393
	C->Y (FR)	0.02680	0.17945	0.63139

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7L	A->Y (RF)	-0.00700	0.05400	0.23708
	B->Y (RF)	-0.01799	0.05168	0.23445
	C->Y (RF)	-0.03267	0.04795	0.23103

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7L	A	0.00374	0.00412	0.00665
	A	-0.00027	-0.00027	-0.00027
	A	0.00018	0.00019	0.00019
	A	-0.00025	0.00013	0.00264
	B	0.00314	0.00355	0.00607
	B	-0.00018	-0.00017	-0.00016
	B	0.00018	0.00019	0.00019
	B	-0.00024	0.00018	0.00269
	C	0.00228	0.00289	0.00606
	C	-0.00006	-0.00006	-0.00004
	C	0.00018	0.00018	0.00019
	C	-0.00045	0.00018	0.00333

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7L	A	-0.00029	0.00020	0.00283
	A	0.00027	0.00027	0.00027
	A	-0.00019	-0.00019	-0.00018
	A	0.00336	0.00401	0.00666
	B	-0.00036	0.00019	0.00270
	B	0.00016	0.00017	0.00026
	B	-0.00019	-0.00018	-0.00018
	B	0.00290	0.00347	0.00601
	C	-0.00026	0.00032	0.00330
	C	0.00004	0.00006	0.00006
	C	-0.00019	-0.00018	-0.00018
	C	0.00244	0.00302	0.00604

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(B * C * !Y)	-0.00042	-0.00038	-0.00033
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00085	0.00085	0.00086
	(B * !C * !Y)	-0.00042	-0.00038	-0.00031
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00085	0.00086	0.00089
	(!B * C * !Y)	-0.00041	-0.00035	-0.00027
	(!B * C * !Y)	-0.00003	-0.00003	-0.00002
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00086	0.00088	0.00091

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(B * C * !Y)	0.00042	0.00042	0.00043
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00085	-0.00085	-0.00084
	(B * !C * !Y)	0.00046	0.00047	0.00047
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00084	-0.00084	-0.00084
	(!B * C * !Y)	0.00043	0.00043	0.00043
	(!B * C * !Y)	0.00002	0.00003	0.00003
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00086	-0.00085	-0.00085

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00011	-0.00011	-0.00011
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00090	0.00091	0.00091
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00008	-0.00008	-0.00008
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00089	0.00089	0.00090
	(!A * C * !Y)	-0.00056	-0.00050	-0.00041
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00082	0.00085	0.00092

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00011	0.00011	0.00011
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00090	-0.00089	-0.00088
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00008	0.00008	0.00008
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00089	-0.00089	-0.00089
	(!A * C * !Y)	0.00059	0.00059	0.00059
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00081	-0.00080	-0.00080

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00112	0.00113	0.00113
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00111	0.00112	0.00112

Passive power(pJ) for C falling (conditional):

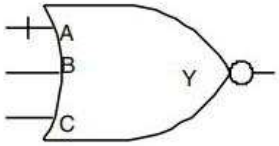
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00113	-0.00112	-0.00112
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00005	0.00005	0.00005
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00112	-0.00111	-0.00110

NOR3X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X6H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X6H7L	0.00284	0.00286	0.00298	0.08194

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X6H7L	0.00000	2.15107	14.82050

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7L	A->Y (FR)	0.03047	0.17648	0.59730
	B->Y (FR)	0.02823	0.18124	0.63723
	C->Y (FR)	0.02185	0.17605	0.63556

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7L	A->Y (RF)	-0.01425	0.05044	0.23293
	B->Y (RF)	-0.02544	0.04808	0.23060
	C->Y (RF)	-0.03884	0.04494	0.22767

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7L	A	0.00411	0.00461	0.00791
	A	-0.00040	-0.00040	-0.00039
	A	0.00027	0.00027	0.00027
	A	-0.00043	0.00008	0.00336
	B	0.00336	0.00389	0.00719
	B	-0.00026	-0.00024	-0.00021
	B	0.00027	0.00027	0.00027
	B	-0.00035	0.00019	0.00347
	C	0.00248	0.00325	0.00732
	C	-0.00009	-0.00008	-0.00006
	C	0.00026	0.00026	0.00027
	C	-0.00047	0.00032	0.00436

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7L	A	-0.00038	0.00022	0.00352
	A	0.00039	0.00040	0.00040
	A	-0.00027	-0.00027	-0.00026
	A	0.00383	0.00455	0.00787
	B	-0.00039	0.00023	0.00339
	B	0.00021	0.00024	0.00027
	B	-0.00027	-0.00027	-0.00026
	B	0.00319	0.00383	0.00703
	C	-0.00034	0.00039	0.00417
	C	0.00006	0.00008	0.00009
	C	-0.00027	-0.00026	-0.00026
	C	0.00254	0.00331	0.00713

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(B * C * !Y)	-0.00054	-0.00049	-0.00043
	(B * C * !Y)	-0.00005	-0.00004	-0.00004
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00088	0.00088	0.00089
	(B * !C * !Y)	-0.00054	-0.00049	-0.00042
	(B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y)	0.00001	0.00001	0.00002
	(B * !C * !Y)	0.00088	0.00089	0.00094
	(!B * C * !Y)	-0.00052	-0.00046	-0.00036
	(!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00088	0.00090	0.00092

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(B * C * !Y)	0.00053	0.00053	0.00054
	(B * C * !Y)	0.00004	0.00004	0.00005
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00088	-0.00088	-0.00087
	(B * !C * !Y)	0.00057	0.00058	0.00058
	(B * !C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00088	-0.00088	-0.00087
	(!B * C * !Y)	0.00054	0.00054	0.00054
	(!B * C * !Y)	0.00004	0.00004	0.00004
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00089	-0.00088	-0.00088

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00018	-0.00017	-0.00018
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00085	0.00085	0.00086
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00084	0.00084	0.00084
	(!A * C * !Y)	-0.00063	-0.00057	-0.00048
	(!A * C * !Y)	-0.00003	-0.00002	-0.00002
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00080	0.00084	0.00089

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00018	0.00017	0.00018
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00084	-0.00084	-0.00083
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00012	0.00012	0.00012
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00084	-0.00083	-0.00083
	(!A * C * !Y)	0.00067	0.00068	0.00068
	(!A * C * !Y)	0.00002	0.00002	0.00003
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	-0.00079	-0.00078	-0.00077

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00111	0.00112	0.00112
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00007	-0.00007	-0.00006
	(A * !B * !Y)	0.00000	0.00001	0.00002
	(A * !B * !Y)	0.00109	0.00111	0.00111

Passive power(pJ) for C falling (conditional):

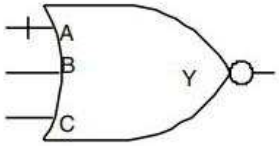
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7L	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00007	0.00007	0.00007
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00112	-0.00111	-0.00111
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00007	0.00007	0.00007
	(A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !Y)	-0.00111	-0.00110	-0.00109

NOR3X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X8H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X8H7L	0.00379	0.00378	0.00393	0.10898

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X8H7L	0.00000	2.86809	19.76060

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7L	A->Y (FR)	0.03025	0.17628	0.59728
	B->Y (FR)	0.02792	0.18094	0.63707
	C->Y (FR)	0.02129	0.17556	0.63575

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7L	A->Y (RF)	-0.01479	0.05030	0.23275
	B->Y (RF)	-0.02609	0.04792	0.23047
	C->Y (RF)	-0.03982	0.04462	0.22738

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7L	A	0.00557	0.00624	0.01064
	A	-0.00053	-0.00053	-0.00052
	A	0.00035	0.00036	0.00036
	A	-0.00050	0.00016	0.00455
	B	0.00453	0.00524	0.00965
	B	-0.00034	-0.00033	-0.00032
	B	0.00035	0.00036	0.00036
	B	-0.00046	0.00026	0.00465
	C	0.00333	0.00436	0.00982
	C	-0.00011	-0.00011	-0.00009
	C	0.00035	0.00035	0.00036
	C	-0.00063	0.00042	0.00584

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7L	A	-0.00051	0.00030	0.00469
	A	0.00052	0.00053	0.00053
	A	-0.00036	-0.00035	-0.00035
	A	0.00499	0.00608	0.01051
	B	-0.00053	0.00032	0.00452
	B	0.00032	0.00033	0.00035
	B	-0.00036	-0.00035	-0.00035
	B	0.00428	0.00517	0.00945
	C	-0.00043	0.00055	0.00560
	C	0.00009	0.00011	0.00016
	C	-0.00036	-0.00035	-0.00034
	C	0.00335	0.00445	0.00957

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(B * C * !Y)	-0.00072	-0.00065	-0.00057
	(B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * C * !Y)	0.00001	0.00002	0.00002
	(B * C * !Y)	0.00118	0.00118	0.00119
	(B * !C * !Y)	-0.00072	-0.00065	-0.00055
	(B * !C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y)	0.00001	0.00002	0.00002
	(B * !C * !Y)	0.00118	0.00119	0.00122
	(!B * C * !Y)	-0.00070	-0.00061	-0.00049
	(!B * C * !Y)	-0.00006	-0.00005	-0.00005
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00118	0.00120	0.00124

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(B * C * !Y)	0.00071	0.00071	0.00072
	(B * C * !Y)	0.00006	0.00006	0.00006
	(B * C * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !Y)	-0.00118	-0.00117	-0.00117
	(B * !C * !Y)	0.00077	0.00077	0.00078
	(B * !C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00117	-0.00117	-0.00117
	(!B * C * !Y)	0.00071	0.00072	0.00072
	(!B * C * !Y)	0.00005	0.00005	0.00006
	(!B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * !Y)	-0.00118	-0.00118	-0.00118

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00023	-0.00023	-0.00022
	(A * C * !Y)	0.00001	0.00002	0.00002
	(A * C * !Y)	0.00118	0.00118	0.00119
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !Y)	0.00001	0.00002	0.00002
	(A * !C * !Y)	0.00116	0.00117	0.00117
	(!A * C * !Y)	-0.00085	-0.00078	-0.00066
	(!A * C * !Y)	-0.00004	-0.00003	-0.00003
	(!A * C * !Y)	0.00001	0.00002	0.00003
	(!A * C * !Y)	0.00109	0.00115	0.00127

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00022	0.00023	0.00023
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00117	-0.00116	-0.00114
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00016	0.00016	0.00016
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00117	-0.00116	-0.00115
	(!A * C * !Y)	0.00090	0.00090	0.00091
	(!A * C * !Y)	0.00003	0.00003	0.00004
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00107	-0.00107	-0.00106

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00009	-0.00009	-0.00009
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00151	0.00152	0.00152
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00009	-0.00009	-0.00008
	(A * !B * !Y)	0.00001	0.00002	0.00003
	(A * !B * !Y)	0.00150	0.00151	0.00152

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7L	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00010	0.00010	0.00010
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00151	-0.00151	-0.00150
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00008	0.00009	0.00009
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00151	-0.00150	-0.00146

NOR4BBX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P5H7L	0.00085	0.00076	0.00074	0.00075	0.01140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P5H7L	0.00000	1.63198	4.80659

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7L	A0N->Y (RR)	0.07973	0.18948	0.46858
	A1N->Y (RR)	0.08378	0.19609	0.47763
	A2->Y (FR)	0.06495	0.21193	0.63534
	A3->Y (FR)	0.05773	0.20527	0.62791

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7L	A0N->Y (FF)	0.03119	0.08036	0.19884
	A1N->Y (FF)	0.03521	0.08673	0.20949
	A2->Y (RF)	-0.00332	0.04813	0.19088
	A3->Y (RF)	-0.01155	0.04585	0.18863

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	A0N	0.00102	0.00129	0.00221
	A0N	-0.00008	-0.00008	-0.00008
	A0N	0.00005	0.00005	0.00005
	A0N	0.00111	0.00138	0.00229
	A1N	0.00096	0.00122	0.00211
	A1N	-0.00006	-0.00005	-0.00005
	A1N	0.00005	0.00005	0.00005
	A1N	0.00108	0.00134	0.00223
	A2	0.00087	0.00096	0.00141
	A2	-0.00005	-0.00004	-0.00003
	A2	0.00006	0.00006	0.00006
	A2	0.00007	0.00016	0.00060
	A3	0.00076	0.00088	0.00145
	A3	-0.00002	-0.00001	-0.00000
	A3	0.00006	0.00006	0.00006
	A3	0.00008	0.00020	0.00077

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	A0N	0.00086	0.00117	0.00221
	A0N	0.00008	0.00008	0.00008
	A0N	-0.00005	-0.00005	-0.00005
	A0N	0.00075	0.00105	0.00209
	A1N	0.00109	0.00137	0.00237
	A1N	0.00005	0.00005	0.00006
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00095	0.00123	0.00223
	A2	-0.00006	0.00005	0.00055
	A2	0.00003	0.00004	0.00008
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00072	0.00085	0.00135
	A3	-0.00004	0.00008	0.00066
	A3	0.00000	0.00001	0.00003
	A3	-0.00006	-0.00006	-0.00006
	A3	0.00063	0.00075	0.00134

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A1N * A2 * A3 * !Y)	-0.00001	0.00026	0.00118
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * A2 * A3 * !Y)	0.00064	0.00091	0.00184
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00000	0.00027	0.00119
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00065	0.00092	0.00184
	(!A1N * A3 * !Y)	0.00003	0.00030	0.00122
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00067	0.00094	0.00187
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00030	0.00122
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * A2 * !A3 * !Y)	0.00067	0.00094	0.00187

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A1N * A2 * A3 * !Y)	0.00077	0.00107	0.00208
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00012	0.00042	0.00142
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00077	0.00107	0.00208
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00012	0.00042	0.00142
	(!A1N * A3 * !Y)	0.00073	0.00104	0.00205
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00008	0.00039	0.00139
	(!A1N * A2 * !A3 * !Y)	0.00073	0.00104	0.00204
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00039	0.00139

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A2 * A3 * !Y)	0.00002	0.00027	0.00116
	(A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00067	0.00093	0.00182
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00028	0.00117
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00067	0.00093	0.00182

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A2 * A3 * !Y)	0.00091	0.00120	0.00217
	(A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00025	0.00053	0.00151
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00091	0.00120	0.00217
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00026	0.00054	0.00151

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A0N * A1N * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00000	0.00000	0.00000
	(A0N * A1N * A3 * !Y)	0.00028	0.00029	0.00030
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00025	0.00025	0.00025
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00024	0.00025	0.00025
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00030	0.00031	0.00031
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A0N * A1N * A3 * !Y)	0.00009	0.00010	0.00010
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00031	0.00031	0.00031
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00027	0.00028	0.00028
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00031	-0.00031	-0.00031

NOR4BBX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P7H7L	0.00086	0.00076	0.00077	0.00080	0.01294

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P7H7L	0.00000	1.65300	5.09375

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7L	A0N->Y (RR)	0.07590	0.18765	0.47047
	A1N->Y (RR)	0.07875	0.19261	0.47751
	A2->Y (FR)	0.06015	0.20851	0.63647
	A3->Y (FR)	0.05303	0.20184	0.62887

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7L	A0N->Y (FF)	0.03105	0.08072	0.20011
	A1N->Y (FF)	0.03419	0.08578	0.20881
	A2->Y (RF)	-0.00655	0.04677	0.19048
	A3->Y (RF)	-0.01502	0.04449	0.18828

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	A0N	0.00111	0.00137	0.00229
	A0N	-0.00009	-0.00009	-0.00009
	A0N	0.00005	0.00006	0.00006
	A0N	0.00115	0.00142	0.00233
	A1N	0.00103	0.00130	0.00218
	A1N	-0.00007	-0.00006	-0.00006
	A1N	0.00006	0.00006	0.00006
	A1N	0.00110	0.00136	0.00225
	A2	0.00093	0.00103	0.00154
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00007	0.00007	0.00007
	A2	0.00006	0.00017	0.00067
	A3	0.00081	0.00094	0.00158
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00007	0.00007	0.00007
	A3	0.00008	0.00021	0.00085

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	A0N	0.00090	0.00120	0.00225
	A0N	0.00009	0.00009	0.00009
	A0N	-0.00006	-0.00006	-0.00005
	A0N	0.00083	0.00112	0.00216
	A1N	0.00109	0.00138	0.00238
	A1N	0.00006	0.00006	0.00007
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00100	0.00129	0.00229
	A2	-0.00007	0.00006	0.00062
	A2	0.00004	0.00005	0.00008
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00077	0.00091	0.00148
	A3	-0.00007	0.00008	0.00073
	A3	0.00001	0.00002	0.00007
	A3	-0.00007	-0.00007	-0.00007
	A3	0.00067	0.00081	0.00146

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A1N * A2 * A3 * !Y)	0.00000	0.00027	0.00118
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00066	0.00093	0.00185
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00001	0.00027	0.00119
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00067	0.00093	0.00185
	(!A1N * A3 * !Y)	0.00005	0.00031	0.00123
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00070	0.00097	0.00189
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00031	0.00123
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00070	0.00097	0.00189

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A1N * A2 * A3 * !Y)	0.00080	0.00110	0.00209
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00014	0.00043	0.00143
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00081	0.00110	0.00209
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00014	0.00043	0.00143
	(!A1N * A3 * !Y)	0.00076	0.00105	0.00205
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00009	0.00039	0.00139
	(!A1N * A2 * !A3 * !Y)	0.00076	0.00105	0.00205
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00009	0.00039	0.00139

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A2 * A3 * !Y)	0.00003	0.00028	0.00117
	(A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00068	0.00093	0.00182
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00029	0.00118
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00068	0.00094	0.00183

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A2 * A3 * !Y)	0.00091	0.00119	0.00216
	(A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00025	0.00053	0.00150
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00091	0.00119	0.00216
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00025	0.00053	0.00151

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A0N * A1N * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A1N * A3 * !Y)	0.00029	0.00030	0.00032
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00025	0.00026	0.00026
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00032	0.00032	0.00032
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A0N * A1N * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00004
	(!A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1N * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00004
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00032	0.00032	0.00033
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00029	0.00029	0.00029
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00033	-0.00033	-0.00033

NOR4BBX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1H7L	0.00086	0.00075	0.00086	0.00088	0.01538

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1H7L	0.00000	1.68825	5.57522

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7L	A0N->Y (RR)	0.07143	0.18551	0.47283
	A1N->Y (RR)	0.07290	0.18884	0.47786
	A2->Y (FR)	0.05479	0.20459	0.63761
	A3->Y (FR)	0.04776	0.19790	0.63063

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7L	A0N->Y (FF)	0.03095	0.08153	0.20282
	A1N->Y (FF)	0.03340	0.08557	0.21005
	A2->Y (RF)	-0.00965	0.04602	0.19262
	A3->Y (RF)	-0.01839	0.04369	0.19093

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	A0N	0.00126	0.00153	0.00243
	A0N	-0.00012	-0.00012	-0.00011
	A0N	0.00007	0.00007	0.00007
	A0N	0.00120	0.00147	0.00237
	A1N	0.00115	0.00142	0.00230
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00007	0.00007	0.00007
	A1N	0.00114	0.00140	0.00228
	A2	0.00103	0.00115	0.00174
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00008	0.00009	0.00009
	A2	0.00005	0.00016	0.00076
	A3	0.00088	0.00104	0.00180
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00008	0.00009	0.00009
	A3	0.00007	0.00023	0.00098

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	A0N	0.00094	0.00124	0.00228
	A0N	0.00011	0.00012	0.00012
	A0N	-0.00007	-0.00007	-0.00007
	A0N	0.00096	0.00125	0.00229
	A1N	0.00110	0.00139	0.00241
	A1N	0.00008	0.00008	0.00008
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00109	0.00138	0.00239
	A2	-0.00007	0.00006	0.00071
	A2	0.00005	0.00006	0.00010
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00088	0.00103	0.00169
	A3	-0.00006	0.00009	0.00085
	A3	0.00001	0.00002	0.00003
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00074	0.00090	0.00167

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A1N * A2 * A3 * !Y)	0.00002	0.00028	0.00119
	(A1N * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00068	0.00094	0.00185
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00029	0.00119
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00068	0.00095	0.00185
	(!A1N * A3 * !Y)	0.00007	0.00033	0.00124
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00072	0.00099	0.00190
	(!A1N * A2 * !A3 * !Y)	0.00007	0.00033	0.00124
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * A2 * !A3 * !Y)	0.00072	0.00099	0.00190

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A1N * A2 * A3 * !Y)	0.00083	0.00112	0.00210
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00016	0.00045	0.00144
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00083	0.00112	0.00210
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00016	0.00045	0.00144
	(!A1N * A3 * !Y)	0.00078	0.00107	0.00205
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00011	0.00041	0.00140
	(!A1N * A2 * !A3 * !Y)	0.00078	0.00107	0.00206
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00011	0.00041	0.00140

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A2 * A3 * !Y)	0.00004	0.00030	0.00119
	(A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00070	0.00096	0.00185
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00031	0.00120
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00071	0.00096	0.00185

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A2 * A3 * !Y)	0.00091	0.00119	0.00215
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00023	0.00052	0.00149
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00091	0.00119	0.00215
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00052	0.00149

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A0N * A1N * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A1N * A3 * !Y)	0.00032	0.00033	0.00034
	(!A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	-0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00027	0.00027	0.00028
	(!A1N * !A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00036	0.00036	0.00036
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00033	0.00034	0.00034

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A0N * A1N * A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	-0.00000	-0.00000	0.00001
	(!A1N * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1N * !A3 * !Y)	0.00006	0.00007	0.00007
	(!A1N * !A3 * !Y)	0.00003	0.00003	0.00004
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	0.00001
	(!A1N * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00034	-0.00034	-0.00033

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00035	0.00035	0.00035
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00032	0.00032	0.00032
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00036	-0.00036	-0.00036

NOR4BBX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1P4H7L	0.00089	0.00075	0.00092	0.00094	0.01749

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1P4H7L	0.00000	1.72742	6.11370

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7L	A0N->Y (RR)	0.07010	0.18595	0.47596
	A1N->Y (RR)	0.07132	0.18927	0.48131
	A2->Y (FR)	0.05189	0.20267	0.63973
	A3->Y (FR)	0.04430	0.19545	0.62981

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7L	A0N->Y (FF)	0.03166	0.08301	0.20569
	A1N->Y (FF)	0.03428	0.08743	0.21365
	A2->Y (RF)	-0.01225	0.04498	0.19199
	A3->Y (RF)	-0.02142	0.04251	0.18952

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	A0N	0.00142	0.00169	0.00257
	A0N	-0.00014	-0.00014	-0.00013
	A0N	0.00008	0.00009	0.00009
	A0N	0.00131	0.00157	0.00246
	A1N	0.00130	0.00156	0.00244
	A1N	-0.00010	-0.00010	-0.00009
	A1N	0.00008	0.00009	0.00009
	A1N	0.00123	0.00149	0.00235
	A2	0.00115	0.00128	0.00196
	A2	-0.00007	-0.00007	-0.00001
	A2	0.00010	0.00010	0.00010
	A2	0.00007	0.00021	0.00088
	A3	0.00097	0.00114	0.00201
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00010	0.00010	0.00010
	A3	0.00010	0.00028	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	A0N	0.00100	0.00130	0.00234
	A0N	0.00013	0.00014	0.00014
	A0N	-0.00009	-0.00009	-0.00008
	A0N	0.00107	0.00136	0.00240
	A1N	0.00118	0.00147	0.00249
	A1N	0.00009	0.00010	0.00010
	A1N	-0.00009	-0.00009	-0.00008
	A1N	0.00122	0.00151	0.00252
	A2	-0.00010	0.00007	0.00080
	A2	0.00001	0.00007	0.00011
	A2	-0.00010	-0.00010	-0.00009
	A2	0.00094	0.00112	0.00186
	A3	-0.00007	0.00011	0.00097
	A3	0.00002	0.00002	0.00003
	A3	-0.00010	-0.00010	-0.00010
	A3	0.00078	0.00096	0.00184

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A1N * A2 * A3 * !Y)	0.00003	0.00029	0.00118
	(A1N * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00072	0.00097	0.00187
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00030	0.00119
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00072	0.00098	0.00187
	(!A1N * A3 * !Y)	0.00008	0.00034	0.00124
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * A3 * !Y)	0.00076	0.00102	0.00192
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00034	0.00124
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00076	0.00102	0.00192

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A1N * A2 * A3 * !Y)	0.00087	0.00116	0.00213
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00018	0.00047	0.00144
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00087	0.00116	0.00213
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00018	0.00047	0.00144
	(!A1N * A3 * !Y)	0.00082	0.00110	0.00208
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00013	0.00042	0.00140
	(!A1N * A2 * !A3 * !Y)	0.00082	0.00110	0.00208
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00013	0.00042	0.00140

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A2 * A3 * !Y)	0.00006	0.00031	0.00118
	(A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00074	0.00099	0.00186
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00007	0.00032	0.00119
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00074	0.00099	0.00186

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A2 * A3 * !Y)	0.00097	0.00124	0.00219
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00028	0.00056	0.00151
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00097	0.00124	0.00219
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00028	0.00056	0.00151

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A0N * A1N * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A1N * A3 * !Y)	0.00033	0.00034	0.00035
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * A3 * !Y)	0.00027	0.00027	0.00027
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00027	0.00027	0.00028
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00038	0.00038	0.00039
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00035	0.00035	0.00036

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A0N * A1N * A3 * !Y)	0.00015	0.00015	0.00015
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1N * A3 * !Y)	0.00008	0.00009	0.00009
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1N * !A3 * !Y)	0.00008	0.00009	0.00008
	(!A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * !A3 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00036	-0.00035	-0.00035

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00037	0.00037	0.00037
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A1N * !A2 * !Y)	0.00034	0.00034	0.00034
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00038	-0.00038	-0.00037

NOR4BBX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX2H7L	0.00088	0.00078	0.00100	0.00109	0.02066

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX2H7L	0.00000	1.79456	7.03054

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7L	A0N->Y (RR)	0.06496	0.18291	0.47695
	A1N->Y (RR)	0.06539	0.18522	0.48100
	A2->Y (FR)	0.04621	0.19828	0.63984
	A3->Y (FR)	0.03927	0.19181	0.63212

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7L	A0N->Y (FF)	0.03077	0.08234	0.20553
	A1N->Y (FF)	0.03320	0.08637	0.21276
	A2->Y (RF)	-0.01881	0.04254	0.18925
	A3->Y (RF)	-0.02818	0.04018	0.18672

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	A0N	0.00157	0.00183	0.00271
	A0N	-0.00017	-0.00017	-0.00016
	A0N	0.00010	0.00011	0.00011
	A0N	0.00133	0.00159	0.00247
	A1N	0.00140	0.00166	0.00254
	A1N	-0.00012	-0.00012	-0.00012
	A1N	0.00010	0.00011	0.00011
	A1N	0.00124	0.00150	0.00236
	A2	0.00122	0.00137	0.00221
	A2	-0.00009	-0.00008	-0.00006
	A2	0.00012	0.00012	0.00012
	A2	0.00001	0.00017	0.00100
	A3	0.00102	0.00123	0.00229
	A3	-0.00003	-0.00003	-0.00001
	A3	0.00012	0.00012	0.00012
	A3	0.00001	0.00023	0.00128

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	A0N	0.00102	0.00131	0.00237
	A0N	0.00016	0.00017	0.00017
	A0N	-0.00011	-0.00011	-0.00010
	A0N	0.00120	0.00150	0.00255
	A1N	0.00119	0.00148	0.00252
	A1N	0.00012	0.00012	0.00012
	A1N	-0.00011	-0.00011	-0.00010
	A1N	0.00130	0.00160	0.00264
	A2	-0.00010	0.00009	0.00096
	A2	0.00006	0.00008	0.00009
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00105	0.00126	0.00215
	A3	-0.00008	0.00013	0.00116
	A3	0.00001	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00011
	A3	0.00091	0.00112	0.00217

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A1N * A2 * A3 * !Y)	0.00006	0.00031	0.00120
	(A1N * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00074	0.00100	0.00189
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00007	0.00032	0.00121
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00074	0.00100	0.00189
	(!A1N * A3 * !Y)	0.00011	0.00037	0.00126
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00079	0.00105	0.00194
	(!A1N * A2 * !A3 * !Y)	0.00011	0.00037	0.00126
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * A2 * !A3 * !Y)	0.00079	0.00105	0.00194

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A1N * A2 * A3 * !Y)	0.00088	0.00116	0.00212
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00019	0.00047	0.00144
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00088	0.00116	0.00212
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00019	0.00047	0.00144
	(!A1N * A3 * !Y)	0.00081	0.00110	0.00207
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00013	0.00042	0.00139
	(!A1N * A2 * !A3 * !Y)	0.00081	0.00110	0.00207
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00013	0.00042	0.00139

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A2 * A3 * !Y)	0.00009	0.00033	0.00120
	(A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00079	0.00103	0.00190
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00010	0.00034	0.00121
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00079	0.00104	0.00191

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A2 * A3 * !Y)	0.00097	0.00124	0.00218
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00025	0.00053	0.00147
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00097	0.00124	0.00218
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00026	0.00053	0.00148

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A0N * A1N * A3 * !Y)	-0.00016	-0.00015	-0.00012
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A1N * A3 * !Y)	0.00036	0.00037	0.00039
	(!A1N * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * A3 * !Y)	0.00030	0.00030	0.00030
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * !A3 * !Y)	0.00029	0.00030	0.00030
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * A3 * !Y)	0.00041	0.00041	0.00042
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A0N * A1N * A3 * !Y)	0.00017	0.00018	0.00018
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1N * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A1N * !A3 * !Y)	0.00004	0.00004	0.00005
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00004	0.00004
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00038	-0.00038	-0.00037

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00043	0.00044	0.00044
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A1N * !A2 * !Y)	0.00040	0.00040	0.00040
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00044	0.00044	0.00044

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00044	-0.00043	-0.00043
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	0.00001
	(!A1N * !A2 * !Y)	-0.00040	-0.00040	-0.00039
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00044	-0.00044	-0.00044

NOR4BBX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX3H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX3H7L	0.00085	0.00089	0.00165	0.00176	0.03184

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX3H7L	0.00000	2.31994	11.22190

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7L	A0N->Y (RR)	0.07091	0.19190	0.48875
	A1N->Y (RR)	0.06950	0.19178	0.49016
	A2->Y (FR)	0.04921	0.20036	0.64058
	A3->Y (FR)	0.03807	0.19034	0.63020

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7L	A0N->Y (FF)	0.03213	0.08668	0.21445
	A1N->Y (FF)	0.03460	0.09008	0.22004
	A2->Y (RF)	-0.01755	0.04348	0.19066
	A3->Y (RF)	-0.02975	0.04019	0.18695

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	A0N	0.00309	0.00341	0.00450
	A0N	-0.00025	-0.00025	-0.00024
	A0N	0.00016	0.00016	0.00017
	A0N	0.00214	0.00246	0.00353
	A1N	0.00271	0.00302	0.00406
	A1N	-0.00020	-0.00018	-0.00014
	A1N	0.00016	0.00016	0.00016
	A1N	0.00188	0.00220	0.00324
	A2	0.00227	0.00250	0.00379
	A2	-0.00013	-0.00012	-0.00008
	A2	0.00018	0.00018	0.00018
	A2	0.00026	0.00049	0.00177
	A3	0.00178	0.00212	0.00382
	A3	-0.00005	-0.00004	-0.00001
	A3	0.00018	0.00018	0.00018
	A3	0.00017	0.00052	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	A0N	0.00149	0.00185	0.00318
	A0N	0.00024	0.00025	0.00025
	A0N	-0.00016	-0.00016	-0.00016
	A0N	0.00231	0.00267	0.00399
	A1N	0.00164	0.00201	0.00332
	A1N	0.00014	0.00018	0.00022
	A1N	-0.00016	-0.00016	-0.00016
	A1N	0.00235	0.00273	0.00404
	A2	-0.00019	0.00013	0.00149
	A2	0.00008	0.00012	0.00025
	A2	-0.00018	-0.00018	-0.00017
	A2	0.00178	0.00209	0.00346
	A3	-0.00014	0.00020	0.00182
	A3	0.00001	0.00004	0.00007
	A3	-0.00018	-0.00018	-0.00017
	A3	0.00146	0.00179	0.00345

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A1N * A2 * A3 * !Y)	0.00015	0.00045	0.00154
	(A1N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00080	0.00111	0.00219
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00016	0.00047	0.00155
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00081	0.00112	0.00220
	(!A1N * A3 * !Y)	0.00031	0.00062	0.00170
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00096	0.00127	0.00235
	(!A1N * A2 * !A3 * !Y)	0.00031	0.00062	0.00170
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00096	0.00127	0.00235

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A1N * A2 * A3 * !Y)	0.00122	0.00155	0.00272
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00055	0.00089	0.00206
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00122	0.00155	0.00272
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00003	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00054	0.00089	0.00206
	(!A1N * A3 * !Y)	0.00103	0.00138	0.00255
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00002
	(!A1N * A3 * !Y)	0.00038	0.00072	0.00191
	(!A1N * A2 * !A3 * !Y)	0.00103	0.00138	0.00255
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00038	0.00073	0.00191

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A2 * A3 * !Y)	0.00029	0.00059	0.00164
	(A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00099	0.00129	0.00235
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00032	0.00062	0.00167
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00101	0.00130	0.00236

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A2 * A3 * !Y)	0.00122	0.00155	0.00269
	(A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A2 * A3 * !Y)	0.00049	0.00083	0.00198
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00123	0.00156	0.00269
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00003	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00051	0.00084	0.00198

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A0N * A1N * A3 * !Y)	-0.00036	-0.00032	-0.00026
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00047	0.00049	0.00054
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * A3 * !Y)	0.00050	0.00051	0.00051
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00049	0.00050	0.00050
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00061	0.00062	0.00063
	(!A0N * A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00056	0.00057	0.00058

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A0N * A1N * A3 * !Y)	0.00038	0.00038	0.00038
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00046	-0.00046	-0.00046
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A3 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00061	-0.00060	-0.00059
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00058	-0.00057	-0.00056

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00066	0.00067	0.00067
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00001
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00066	0.00066	0.00067
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00068	0.00068	0.00068

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7L	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00000	0.00000
	(A2 * !Y)	-0.00067	-0.00066	-0.00066
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A1N * !A2 * !Y)	0.00001	0.00003	0.00003
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00066	-0.00065	-0.00065
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00068	-0.00068	-0.00067

NOR4BBX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX4H7L	0.00093	0.00098	0.00192	0.00203	0.04082

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX4H7L	0.00000	2.67539	13.72170

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7L	A0N->Y (RR)	0.06390	0.18557	0.48547
	A1N->Y (RR)	0.06265	0.18588	0.48728
	A2->Y (FR)	0.04299	0.19564	0.64174
	A3->Y (FR)	0.03202	0.18587	0.63088

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7L	A0N->Y (FF)	0.03030	0.08503	0.21362
	A1N->Y (FF)	0.03307	0.08904	0.22048
	A2->Y (RF)	-0.02402	0.04114	0.18788
	A3->Y (RF)	-0.03674	0.03784	0.18487

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	A0N	0.00359	0.00396	0.00519
	A0N	-0.00034	-0.00034	-0.00033
	A0N	0.00021	0.00022	0.00022
	A0N	0.00237	0.00274	0.00393
	A1N	0.00312	0.00348	0.00467
	A1N	-0.00027	-0.00024	-0.00019
	A1N	0.00021	0.00022	0.00022
	A1N	0.00206	0.00241	0.00358
	A2	0.00257	0.00286	0.00457
	A2	-0.00017	-0.00016	-0.00008
	A2	0.00024	0.00024	0.00024
	A2	0.00018	0.00048	0.00218
	A3	0.00197	0.00242	0.00464
	A3	-0.00006	-0.00005	-0.00004
	A3	0.00024	0.00024	0.00024
	A3	0.00008	0.00054	0.00275

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	A0N	0.00161	0.00202	0.00356
	A0N	0.00033	0.00034	0.00034
	A0N	-0.00022	-0.00022	-0.00021
	A0N	0.00267	0.00310	0.00462
	A1N	0.00180	0.00224	0.00376
	A1N	0.00019	0.00024	0.00029
	A1N	-0.00022	-0.00022	-0.00021
	A1N	0.00274	0.00318	0.00469
	A2	-0.00020	0.00016	0.00191
	A2	0.00008	0.00016	0.00020
	A2	-0.00024	-0.00024	-0.00024
	A2	0.00209	0.00248	0.00426
	A3	-0.00019	0.00025	0.00236
	A3	0.00004	0.00006	0.00010
	A3	-0.00024	-0.00024	-0.00023
	A3	0.00169	0.00212	0.00425

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A1N * A2 * A3 * !Y)	0.00020	0.00055	0.00176
	(A1N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00093	0.00128	0.00249
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00021	0.00056	0.00177
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00094	0.00128	0.00250
	(!A1N * A3 * !Y)	0.00035	0.00070	0.00191
	(!A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00106	0.00141	0.00263
	(!A1N * A2 * !A3 * !Y)	0.00035	0.00070	0.00191
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00106	0.00141	0.00263

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A1N * A2 * A3 * !Y)	0.00131	0.00169	0.00300
	(A1N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00056	0.00095	0.00227
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00131	0.00169	0.00300
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00056	0.00095	0.00227
	(!A1N * A3 * !Y)	0.00113	0.00152	0.00285
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00041	0.00080	0.00213
	(!A1N * A2 * !A3 * !Y)	0.00113	0.00152	0.00285
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00041	0.00080	0.00213

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A2 * A3 * !Y)	0.00037	0.00070	0.00188
	(A2 * A3 * !Y)	0.00005	0.00006	0.00007
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00115	0.00148	0.00266
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00041	0.00074	0.00191
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00116	0.00149	0.00267

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A2 * A3 * !Y)	0.00134	0.00170	0.00298
	(A2 * A3 * !Y)	-0.00007	-0.00006	-0.00005
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00052	0.00090	0.00219
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00135	0.00171	0.00298
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00054	0.00091	0.00219

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A0N * A1N * A3 * !Y)	-0.00043	-0.00039	-0.00031
	(A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00054	0.00057	0.00061
	(!A1N * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00057	0.00058	0.00058
	(!A1N * !A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00057	0.00057	0.00058
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00071	0.00072	0.00073
	(!A0N * A1N * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00064	0.00066	0.00067

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A0N * A1N * A3 * !Y)	0.00045	0.00045	0.00046
	(A0N * A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	0.00001
	(A0N * A1N * A3 * !Y)	-0.00054	-0.00053	-0.00053
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * A3 * !Y)	0.00011	0.00011	0.00011
	(!A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * A3 * !Y)	-0.00057	-0.00057	-0.00055
	(!A1N * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * !A3 * !Y)	0.00007	0.00008	0.00008
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	0.00000
	(!A1N * !A3 * !Y)	-0.00057	-0.00056	-0.00055
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00070	-0.00069	-0.00068
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A0N * A1N * !A3 * !Y)	0.00007	0.00007	0.00008
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00066	-0.00066	-0.00064

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00076	0.00076	0.00077
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00075	0.00076	0.00076
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00077	0.00078	0.00078

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7L	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	0.00000
	(A2 * !Y)	-0.00076	-0.00076	-0.00075
	(!A1N * !A2 * !Y)	0.00002	0.00003	0.00004
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00006
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00076	-0.00075	-0.00074
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00002
	(!A0N * A1N * !A2 * !Y)	0.00003	0.00004	0.00005
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00078	-0.00078	-0.00077

NOR4BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P5H7L	0.00085	0.00066	0.00074	0.00074	0.01144

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P5H7L	0.00000	0.97549	4.58449

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7L	A0N->Y (RR)	0.07869	0.18882	0.46873
	A1->Y (FR)	0.06601	0.20664	0.60360
	A2->Y (FR)	0.06418	0.21121	0.63579
	A3->Y (FR)	0.05727	0.20477	0.62732

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7L	A0N->Y (FF)	0.03138	0.08068	0.19953
	A1->Y (RF)	0.00277	0.04938	0.19256
	A2->Y (RF)	-0.00426	0.04789	0.19106
	A3->Y (RF)	-0.01256	0.04566	0.18863

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	A0N	0.00099	0.00126	0.00218
	A0N	-0.00008	-0.00008	-0.00008
	A0N	0.00005	0.00005	0.00005
	A0N	0.00095	0.00122	0.00213
	A1	0.00095	0.00103	0.00149
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	-0.00001	0.00008	0.00053
	A2	0.00085	0.00094	0.00139
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00006	0.00006	0.00006
	A2	0.00000	0.00009	0.00054
	A3	0.00074	0.00086	0.00143
	A3	-0.00001	-0.00001	-0.00001
	A3	0.00006	0.00006	0.00006
	A3	-0.00001	0.00012	0.00068

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	**A0N**	0.00088	0.00118	0.00222
	A0N	0.00008	0.00008	0.00008
	A0N	-0.00005	-0.00005	-0.00005
	A0N	0.00088	0.00119	0.00222
	A1	-0.00006	0.00005	0.00057
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00085	0.00098	0.00151
	A2	-0.00005	0.00005	0.00056
	A2	0.00004	0.00004	0.00005
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00076	0.00089	0.00140
	A3	-0.00004	0.00007	0.00066
	A3	0.00001	0.00001	0.00002
	A3	-0.00006	-0.00006	-0.00006
	A3	0.00070	0.00082	0.00141

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A1 * A3 * !Y)	-0.00000	0.00027	0.00119
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	0.00067	0.00094	0.00187
	(A1 * A2 * !A3 * !Y)	-0.00000	0.00027	0.00119
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00068	0.00095	0.00187
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00000	0.00027	0.00119
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00068	0.00095	0.00187
	(!A1 * A2 * A3 * !Y)	-0.00001	0.00026	0.00118
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00068	0.00095	0.00187

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A1 * A3 * !Y)	0.00078	0.00108	0.00208
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * A3 * !Y)	0.00009	0.00039	0.00140
	(A1 * A2 * !A3 * !Y)	0.00078	0.00108	0.00208
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00009	0.00039	0.00140
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00078	0.00108	0.00208
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00039	0.00140
	(!A1 * A2 * A3 * !Y)	0.00079	0.00108	0.00208
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00009	0.00039	0.00140

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A0N * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0N * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00024	0.00024	0.00025
	(A0N * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00021	0.00021	0.00021
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00021	0.00021	0.00021
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00021	0.00021	0.00021
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A0N * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0N * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0N * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0N * A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0N * !A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00025	0.00026	0.00027
	(!A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0N * !A1 * A3 * !Y)	0.00009	0.00010	0.00010
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00025	-0.00024	-0.00024

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00030	0.00030	0.00030
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00030

NOR4BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P7H7L	0.00086	0.00070	0.00078	0.00079	0.01297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P7H7L	0.00000	0.99652	4.87165

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7L	A0N->Y (RR)	0.07490	0.18688	0.47037
	A1->Y (FR)	0.06192	0.20389	0.60491
	A2->Y (FR)	0.05962	0.20795	0.63655
	A3->Y (FR)	0.05263	0.20141	0.62970

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7L	A0N->Y (FF)	0.03104	0.08072	0.20026
	A1->Y (RF)	-0.00015	0.04817	0.19261
	A2->Y (RF)	-0.00744	0.04660	0.19055
	A3->Y (RF)	-0.01579	0.04433	0.18834

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	A0N	0.00109	0.00136	0.00227
	A0N	-0.00009	-0.00009	-0.00009
	A0N	0.00006	0.00006	0.00006
	A0N	0.00098	0.00125	0.00215
	A1	0.00103	0.00112	0.00163
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00007	0.00007	0.00007
	A1	-0.00001	0.00008	0.00059
	A2	0.00091	0.00101	0.00152
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00007	0.00007	0.00007
	A2	-0.00000	0.00010	0.00060
	A3	0.00079	0.00092	0.00157
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00007	0.00007	0.00007
	A3	-0.00001	0.00013	0.00077

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	**A0N**	0.00091	0.00121	0.00225
	A0N	0.00009	0.00009	0.00009
	A0N	-0.00006	-0.00006	-0.00006
	A0N	0.00097	0.00127	0.00231
	A1	-0.00007	0.00005	0.00063
	A1	0.00008	0.00008	0.00008
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00090	0.00105	0.00164
	A2	-0.00007	0.00006	0.00062
	A2	0.00004	0.00005	0.00007
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00082	0.00096	0.00153
	A3	-0.00005	0.00008	0.00073
	A3	0.00001	0.00002	0.00002
	A3	-0.00007	-0.00007	-0.00007
	A3	0.00073	0.00088	0.00154

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A1 * A3 * !Y)	0.00001	0.00027	0.00119
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	0.00070	0.00096	0.00188
	(A1 * A2 * !A3 * !Y)	0.00001	0.00027	0.00119
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00070	0.00096	0.00188
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00028	0.00120
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00070	0.00096	0.00188
	(!A1 * A2 * A3 * !Y)	0.00000	0.00027	0.00118
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00070	0.00096	0.00188

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A1 * A3 * !Y)	0.00080	0.00109	0.00209
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00010	0.00040	0.00140
	(A1 * A2 * !A3 * !Y)	0.00080	0.00109	0.00209
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00010	0.00040	0.00140
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00080	0.00110	0.00209
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00011	0.00040	0.00140
	(!A1 * A2 * A3 * !Y)	0.00081	0.00110	0.00210
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00010	0.00040	0.00140

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A0N * A2 * A3 * !Y)	-0.00011	-0.00010	-0.00009
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00025	0.00025	0.00026
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00002	-0.00003	-0.00002
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A0N * A2 * A3 * !Y)	0.00010	0.00011	0.00011
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * !A2 * A3 * !Y)	0.00010	0.00011	0.00011
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0N * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * !A1 * A3 * !Y)	0.00027	0.00027	0.00028
	(!A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00026	0.00026	0.00027
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00026
	(A0N * !A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0N * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !Y)	0.00031	0.00032	0.00032
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00032	-0.00032	-0.00031

NOR4BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1H7L	0.00087	0.00077	0.00083	0.00087	0.01541

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1H7L	0.00000	1.03176	5.35312

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7L	A0N->Y (RR)	0.07033	0.18469	0.47259
	A1->Y (FR)	0.05690	0.20047	0.60793
	A2->Y (FR)	0.05384	0.20374	0.63746
	A3->Y (FR)	0.04731	0.19744	0.62945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7L	A0N->Y (FF)	0.03100	0.08163	0.20313
	A1->Y (RF)	-0.00296	0.04752	0.19533
	A2->Y (RF)	-0.01056	0.04574	0.19297
	A3->Y (RF)	-0.01929	0.04354	0.19112

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7L	A0N	0.00123	0.00150	0.00240
	A0N	-0.00012	-0.00012	-0.00011
	A0N	0.00007	0.00007	0.00007
	A0N	0.00102	0.00128	0.00218
	A1	0.00115	0.00126	0.00186
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00008	0.00009	0.00009
	A1	-0.00002	0.00009	0.00069
	A2	0.00101	0.00112	0.00172
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00008	0.00009	0.00009
	A2	-0.00001	0.00011	0.00071
	A3	0.00086	0.00102	0.00178
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00008	0.00009	0.00009
	A3	-0.00002	0.00014	0.00090

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7L	A0N	0.00095	0.00124	0.00229
	A0N	0.00011	0.00012	0.00012
	A0N	-0.00007	-0.00007	-0.00007
	A0N	0.00110	0.00140	0.00244
	A1	-0.00010	0.00005	0.00073
	A1	0.00009	0.00010	0.00012
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00103	0.00119	0.00186
	A2	-0.00007	0.00006	0.00072
	A2	0.00005	0.00006	0.00007
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00090	0.00106	0.00172
	A3	-0.00006	0.00009	0.00085
	A3	0.00001	0.00002	0.00003
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00081	0.00097	0.00174

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A1 * A3 * !Y)	0.00002	0.00029	0.00119
	(A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00072	0.00098	0.00189
	(A1 * A2 * !A3 * !Y)	0.00003	0.00029	0.00119
	(A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00072	0.00098	0.00189
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00030	0.00120
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00072	0.00098	0.00189
	(!A1 * A2 * A3 * !Y)	0.00002	0.00028	0.00118
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00072	0.00098	0.00189

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A1 * A3 * !Y)	0.00083	0.00112	0.00210
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00012	0.00042	0.00140
	(A1 * A2 * !A3 * !Y)	0.00083	0.00112	0.00210
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00012	0.00042	0.00140
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00083	0.00112	0.00210
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00013	0.00042	0.00140
	(!A1 * A2 * A3 * !Y)	0.00084	0.00112	0.00211
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00012	0.00042	0.00140

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A0N * A2 * A3 * !Y)	-0.00012	-0.00011	-0.00010
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00026	0.00027	0.00027
	(A0N * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00010
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00027	0.00027	0.00028
	(A0N * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00008
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A2 * A3 * !Y)	0.00023	0.00024	0.00024
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00023	0.00024	0.00024
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00023	0.00024	0.00024
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A0N * A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00026
	(A0N * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0N * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A0N * !A1 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00027	0.00028	0.00030
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00028	0.00028	0.00029
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00028	-0.00027	-0.00027
	(A0N * !A1 * A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00003	0.00004
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00028	-0.00027	-0.00027

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00034	0.00035	0.00035
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00034	0.00034	0.00035
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00034	0.00034	0.00035

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	0.00000	0.00003
	(A2 * !Y)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00035	-0.00034	-0.00034

NOR4BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1P4H7L	0.00088	0.00085	0.00086	0.00093	0.01754

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1P4H7L	0.00000	1.07093	5.89160

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7L	A0N->Y (RR)	0.06822	0.18433	0.47508
	A1->Y (FR)	0.05460	0.19905	0.61007
	A2->Y (FR)	0.05049	0.20133	0.63985
	A3->Y (FR)	0.04380	0.19494	0.63017

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7L	A0N->Y (FF)	0.03136	0.08261	0.20531
	A1->Y (RF)	-0.00540	0.04658	0.19439
	A2->Y (RF)	-0.01375	0.04458	0.19241
	A3->Y (RF)	-0.02257	0.04230	0.18965

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	A0N	0.00138	0.00164	0.00253
	A0N	-0.00014	-0.00014	-0.00013
	A0N	0.00008	0.00009	0.00009
	A0N	0.00108	0.00134	0.00223
	A1	0.00128	0.00140	0.00208
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00002	0.00010	0.00078
	A2	0.00111	0.00123	0.00193
	A2	-0.00008	-0.00007	-0.00006
	A2	0.00010	0.00010	0.00010
	A2	0.00001	0.00014	0.00083
	A3	0.00094	0.00112	0.00199
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00010	0.00010	0.00010
	A3	-0.00002	0.00016	0.00103

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	**A0N**	0.00099	0.00129	0.00233
	A0N	0.00013	0.00014	0.00014
	A0N	-0.00008	-0.00009	-0.00008
	A0N	0.00122	0.00152	0.00256
	A1	-0.00009	0.00006	0.00082
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00114	0.00132	0.00208
	A2	-0.00025	0.00006	0.00081
	A2	0.00006	0.00007	0.00023
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00096	0.00114	0.00189
	A3	-0.00007	0.00011	0.00097
	A3	0.00001	0.00002	0.00003
	A3	-0.00010	-0.00010	-0.00010
	A3	0.00087	0.00105	0.00193

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A1 * A3 * !Y)	0.00004	0.00030	0.00119
	(A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00076	0.00102	0.00192
	(A1 * A2 * !A3 * !Y)	0.00004	0.00030	0.00119
	(A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00076	0.00102	0.00192
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00005	0.00031	0.00120
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00076	0.00102	0.00192
	(!A1 * A2 * A3 * !Y)	0.00003	0.00029	0.00118
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00076	0.00102	0.00192

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A1 * A3 * !Y)	0.00086	0.00115	0.00212
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00013	0.00042	0.00139
	(A1 * A2 * !A3 * !Y)	0.00086	0.00115	0.00212
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00013	0.00042	0.00139
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00086	0.00115	0.00212
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00013	0.00042	0.00139
	(!A1 * A2 * A3 * !Y)	0.00087	0.00116	0.00213
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00013	0.00042	0.00139

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A0N * A2 * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(A0N * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00010
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00029	0.00029	0.00029
	(A0N * !A2 * A3 * !Y)	-0.00013	-0.00012	-0.00009
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00029	0.00029	0.00030
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00025	0.00025	0.00026
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A0N * A2 * A3 * !Y)	0.00013	0.00014	0.00014
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0N * A2 * !A3 * !Y)	0.00014	0.00014	0.00015
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0N * !A2 * A3 * !Y)	0.00013	0.00014	0.00014
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0N * !A1 * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00027	0.00027	0.00029
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00027	0.00027	0.00028
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0N * !A1 * A3 * !Y)	0.00015	0.00015	0.00016
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00037	0.00037	0.00037
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !Y)	0.00037	0.00037	0.00037
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00036	0.00037	0.00037

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00036
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00036

NOR4BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX2H7L	0.00088	0.00097	0.00102	0.00102	0.02068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX2H7L	0.00000	1.13807	6.80843

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7L	A0N->Y (RR)	0.06412	0.18221	0.47665
	A1->Y (FR)	0.05009	0.19580	0.61182
	A2->Y (FR)	0.04643	0.19837	0.64031
	A3->Y (FR)	0.03875	0.19127	0.63197

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7L	A0N->Y (FF)	0.03081	0.08237	0.20558
	A1->Y (RF)	-0.01082	0.04443	0.19124
	A2->Y (RF)	-0.01920	0.04251	0.18877
	A3->Y (RF)	-0.02871	0.04003	0.18680

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7L	A0N	0.00155	0.00181	0.00269
	A0N	-0.00017	-0.00017	-0.00016
	A0N	0.00011	0.00011	0.00011
	A0N	0.00109	0.00136	0.00223
	A1	0.00142	0.00156	0.00239
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00012	0.00012	0.00012
	A1	-0.00007	0.00007	0.00090
	A2	0.00121	0.00137	0.00221
	A2	-0.00008	-0.00008	-0.00007
	A2	0.00012	0.00012	0.00012
	A2	-0.00005	0.00011	0.00095
	A3	0.00100	0.00121	0.00227
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00012	0.00012	0.00012
	A3	-0.00007	0.00015	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7L	A0N	0.00102	0.00131	0.00237
	A0N	0.00016	0.00017	0.00017
	A0N	-0.00011	-0.00011	-0.00011
	A0N	0.00139	0.00169	0.00274
	A1	-0.00011	0.00007	0.00097
	A1	0.00013	0.00013	0.00014
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00128	0.00150	0.00241
	A2	-0.00010	0.00008	0.00095
	A2	0.00007	0.00008	0.00008
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00111	0.00131	0.00220
	A3	-0.00008	0.00013	0.00116
	A3	0.00002	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00011
	A3	0.00098	0.00119	0.00224

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A1 * A3 * !Y)	0.00007	0.00032	0.00121
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00079	0.00105	0.00194
	(A1 * A2 * !A3 * !Y)	0.00007	0.00032	0.00121
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00079	0.00105	0.00194
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00008	0.00034	0.00122
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00080	0.00105	0.00194
	(!A1 * A2 * A3 * !Y)	0.00006	0.00031	0.00120
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00080	0.00105	0.00194

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A1 * A3 * !Y)	0.00087	0.00115	0.00212
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00013	0.00042	0.00139
	(A1 * A2 * !A3 * !Y)	0.00087	0.00115	0.00212
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00013	0.00042	0.00139
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00087	0.00115	0.00212
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00013	0.00042	0.00139
	(!A1 * A2 * A3 * !Y)	0.00089	0.00117	0.00212
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00013	0.00042	0.00139

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A0N * A2 * A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00031	0.00032	0.00032
	(A0N * A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A2 * !A3 * !Y)	0.00032	0.00032	0.00033
	(A0N * !A2 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00032	0.00032	0.00033
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A2 * A3 * !Y)	0.00027	0.00028	0.00028
	(!A0N * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00027	0.00028	0.00028
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A0N * A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00032	-0.00032	-0.00031
	(A0N * A2 * !A3 * !Y)	0.00017	0.00017	0.00018
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00031
	(A0N * !A2 * A3 * !Y)	0.00016	0.00016	0.00017
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0N * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00007	0.00007
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * A3 * !Y)	0.00031	0.00032	0.00032
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0N * !A1 * A3 * !Y)	-0.00017	-0.00015	-0.00012
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00031	0.00032	0.00033
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00031	0.00032	0.00032
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0N * !A1 * A3 * !Y)	0.00018	0.00018	0.00018
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00040	0.00040	0.00040
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !Y)	0.00040	0.00040	0.00040
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00040	-0.00040	-0.00039
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00040	-0.00040	-0.00039

NOR4BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX3H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX3H7L	0.00100	0.00168	0.00168	0.00171	0.03167

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX3H7L	0.00000	1.55104	10.96710

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7L	A0N->Y (RR)	0.07245	0.19331	0.49012
	A1->Y (FR)	0.05629	0.20122	0.61263
	A2->Y (FR)	0.05044	0.20130	0.64085
	A3->Y (FR)	0.03822	0.19037	0.62940

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7L	A0N->Y (FF)	0.03324	0.08768	0.21518
	A1->Y (RF)	-0.00730	0.04597	0.19255
	A2->Y (RF)	-0.01672	0.04360	0.18962
	A3->Y (RF)	-0.02932	0.04016	0.18642

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7L	A0N	0.00315	0.00347	0.00454
	A0N	-0.00025	-0.00025	-0.00024
	A0N	0.00016	0.00016	0.00016
	A0N	0.00188	0.00219	0.00325
	A1	0.00275	0.00295	0.00415
	A1	-0.00022	-0.00020	-0.00018
	A1	0.00018	0.00018	0.00019
	A1	0.00012	0.00032	0.00151
	A2	0.00231	0.00253	0.00381
	A2	-0.00013	-0.00012	-0.00009
	A2	0.00018	0.00018	0.00018
	A2	0.00014	0.00037	0.00163
	A3	0.00179	0.00214	0.00383
	A3	-0.00004	-0.00004	-0.00003
	A3	0.00018	0.00018	0.00018
	A3	0.00005	0.00040	0.00208

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7L	A0N	0.00155	0.00191	0.00322
	A0N	0.00024	0.00025	0.00025
	A0N	-0.00016	-0.00016	-0.00016
	A0N	0.00264	0.00301	0.00430
	A1	-0.00020	0.00011	0.00149
	A1	0.00018	0.00020	0.00024
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00228	0.00263	0.00402
	A2	-0.00014	0.00014	0.00149
	A2	0.00009	0.00012	0.00018
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00195	0.00225	0.00362
	A3	-0.00014	0.00020	0.00183
	A3	0.00003	0.00004	0.00005
	A3	-0.00018	-0.00018	-0.00018
	A3	0.00159	0.00193	0.00358

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A1 * A3 * !Y)	0.00016	0.00046	0.00154
	(A1 * A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	0.00097	0.00128	0.00236
	(A1 * A2 * !A3 * !Y)	0.00016	0.00046	0.00154
	(A1 * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00097	0.00128	0.00236
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00019	0.00049	0.00156
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00099	0.00129	0.00237
	(!A1 * A2 * A3 * !Y)	0.00014	0.00044	0.00151
	(!A1 * A2 * A3 * !Y)	0.00005	0.00005	0.00006
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00099	0.00129	0.00236

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A1 * A3 * !Y)	0.00122	0.00156	0.00272
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A3 * !Y)	0.00038	0.00072	0.00190
	(A1 * A2 * !A3 * !Y)	0.00122	0.00156	0.00272
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00002
	(A1 * A2 * !A3 * !Y)	0.00038	0.00072	0.00190
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00123	0.00156	0.00272
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00038	0.00072	0.00190
	(!A1 * A2 * A3 * !Y)	0.00125	0.00158	0.00274
	(!A1 * A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00002
	(!A1 * A2 * A3 * !Y)	0.00038	0.00072	0.00190

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A0N * A2 * A3 * !Y)	-0.00035	-0.00032	-0.00028
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00050	0.00050	0.00051
	(A0N * A2 * !A3 * !Y)	-0.00035	-0.00032	-0.00027
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00002
	(A0N * A2 * !A3 * !Y)	0.00050	0.00050	0.00051
	(A0N * !A2 * A3 * !Y)	-0.00034	-0.00029	-0.00023
	(A0N * !A2 * A3 * !Y)	-0.00004	-0.00002	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00051	0.00052	0.00054
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00053	0.00053	0.00053
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00054	0.00054	0.00054
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00054	0.00054	0.00055
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00053	0.00053	0.00053

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A0N * A2 * A3 * !Y)	0.00034	0.00034	0.00035
	(A0N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * A2 * A3 * !Y)	-0.00050	-0.00050	-0.00049
	(A0N * A2 * !A3 * !Y)	0.00036	0.00036	0.00037
	(A0N * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00050	-0.00050	-0.00049
	(A0N * !A2 * A3 * !Y)	0.00034	0.00034	0.00034
	(A0N * !A2 * A3 * !Y)	0.00002	0.00002	0.00004
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * !A2 * A3 * !Y)	-0.00050	-0.00050	-0.00049
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00053	-0.00053	-0.00052
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00053	-0.00053	-0.00053
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00006	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00054	-0.00054	-0.00053
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00053	-0.00053	-0.00052

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00052	0.00052	0.00053
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00051	0.00052	0.00052
	(A0N * !A1 * A3 * !Y)	-0.00035	-0.00031	-0.00025
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00049	0.00051	0.00055
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00054	0.00054	0.00055
	(!A0N * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00052	0.00053	0.00054

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00052	-0.00052	-0.00051
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00052	-0.00051	-0.00051
	(A0N * !A1 * A3 * !Y)	0.00036	0.00037	0.00037
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00048	-0.00048	-0.00048
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00054	-0.00053	-0.00053
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00053	-0.00053	-0.00051

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00066	0.00066	0.00066
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00065	0.00065	0.00066
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00065	0.00066	0.00066

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7L	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00066	-0.00066	-0.00066
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00065	-0.00065	-0.00064
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00066	-0.00065	-0.00065

NOR4BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX4H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX4H7L	0.00106	0.00197	0.00196	0.00200	0.04045

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX4H7L	0.00000	1.81927	13.44710

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7L	A0N->Y (RR)	0.06642	0.18817	0.48762
	A1->Y (FR)	0.05076	0.19704	0.61352
	A2->Y (FR)	0.04482	0.19692	0.64140
	A3->Y (FR)	0.03349	0.18696	0.63108

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7L	A0N->Y (FF)	0.03188	0.08679	0.21549
	A1->Y (RF)	-0.01270	0.04385	0.19035
	A2->Y (RF)	-0.02259	0.04140	0.18725
	A3->Y (RF)	-0.03544	0.03801	0.18403

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7L	A0N	0.00373	0.00409	0.00531
	A0N	-0.00034	-0.00034	-0.00033
	A0N	0.00021	0.00022	0.00022
	A0N	0.00203	0.00239	0.00358
	A1	0.00324	0.00350	0.00510
	A1	-0.00029	-0.00027	-0.00025
	A1	0.00024	0.00024	0.00024
	A1	0.00005	0.00031	0.00190
	A2	0.00268	0.00297	0.00465
	A2	-0.00017	-0.00016	-0.00014
	A2	0.00024	0.00024	0.00024
	A2	0.00005	0.00035	0.00202
	A3	0.00206	0.00251	0.00470
	A3	-0.00006	-0.00005	-0.00005
	A3	0.00024	0.00024	0.00024
	A3	-0.00003	0.00043	0.00261

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7L	**A0N**	0.00172	0.00212	0.00364
	A0N	0.00033	0.00034	0.00034
	A0N	-0.00022	-0.00022	-0.00021
	A0N	0.00319	0.00360	0.00509
	A1	-0.00027	0.00012	0.00188
	A1	0.00025	0.00027	0.00033
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00274	0.00317	0.00493
	A2	-0.00021	0.00015	0.00188
	A2	0.00014	0.00016	0.00019
	A2	-0.00024	-0.00024	-0.00024
	A2	0.00228	0.00270	0.00445
	A3	-0.00022	0.00021	0.00232
	A3	0.00005	0.00006	0.00007
	A3	-0.00024	-0.00024	-0.00023
	A3	0.00185	0.00228	0.00441

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A1 * A3 * !Y)	0.00022	0.00056	0.00176
	(A1 * A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00109	0.00144	0.00264
	(A1 * A2 * !A3 * !Y)	0.00022	0.00056	0.00177
	(A1 * A2 * !A3 * !Y)	0.00005	0.00006	0.00007
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00109	0.00144	0.00264
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00025	0.00060	0.00180
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00111	0.00145	0.00266
	(!A1 * A2 * A3 * !Y)	0.00019	0.00053	0.00173
	(!A1 * A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00111	0.00145	0.00265

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A1 * A3 * !Y)	0.00133	0.00171	0.00301
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00043	0.00081	0.00213
	(A1 * A2 * !A3 * !Y)	0.00133	0.00171	0.00301
	(A1 * A2 * !A3 * !Y)	-0.00007	-0.00006	-0.00005
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00043	0.00081	0.00213
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00134	0.00171	0.00301
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00043	0.00081	0.00213
	(!A1 * A2 * A3 * !Y)	0.00137	0.00174	0.00303
	(!A1 * A2 * A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00042	0.00081	0.00213

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A0N * A2 * A3 * !Y)	-0.00042	-0.00039	-0.00033
	(A0N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00058	0.00058	0.00059
	(A0N * A2 * !A3 * !Y)	-0.00043	-0.00038	-0.00032
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00058	0.00059	0.00062
	(A0N * !A2 * A3 * !Y)	-0.00041	-0.00036	-0.00027
	(A0N * !A2 * A3 * !Y)	-0.00003	-0.00002	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A2 * A3 * !Y)	0.00059	0.00059	0.00061
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00061	0.00062	0.00062
	(!A0N * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00062	0.00062	0.00062
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00062	0.00062	0.00062
	(!A0N * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00061	0.00061	0.00062

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A0N * A2 * A3 * !Y)	0.00042	0.00042	0.00042
	(A0N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * A2 * A3 * !Y)	-0.00058	-0.00058	-0.00058
	(A0N * A2 * !A3 * !Y)	0.00044	0.00044	0.00045
	(A0N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00058	-0.00058	-0.00057
	(A0N * !A2 * A3 * !Y)	0.00042	0.00042	0.00042
	(A0N * !A2 * A3 * !Y)	0.00001	0.00002	0.00003
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00059	-0.00058	-0.00058
	(!A0N * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00061	-0.00061	-0.00060
	(!A0N * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00062	-0.00061	-0.00060
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00062	-0.00062	-0.00062
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00008	0.00008
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00061	-0.00061	-0.00060

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00061	0.00062	0.00062
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00060	0.00061	0.00061
	(A0N * !A1 * A3 * !Y)	-0.00043	-0.00038	-0.00031
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00058	0.00060	0.00065
	(!A0N * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00062	0.00064	0.00066
	(!A0N * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00061	0.00062	0.00062

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * !A3 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !A3 * !Y)	-0.00061	-0.00060	-0.00060
	(A0N * !A1 * A3 * !Y)	0.00045	0.00045	0.00046
	(A0N * !A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00057	-0.00057	-0.00056
	(!A0N * !A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A1 * A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00062	-0.00062	-0.00061
	(!A0N * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * !A3 * !Y)	0.00007	0.00007	0.00008
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00062	-0.00061	-0.00059

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00076	0.00076	0.00076
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00075	0.00075	0.00076
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00075	0.00076	0.00076

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	0.00000
	(A2 * !Y)	-0.00076	-0.00076	-0.00075
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00075	-0.00075	-0.00074
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00005	0.00005	0.00006
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00076	-0.00075	-0.00075

NOR4X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P5H7L	0.00067	0.00067	0.00071	0.00080	0.01140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P5H7L	0.00000	0.31900	4.36239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7L	A0->Y (FR)	0.06930	0.20316	0.57427
	A1->Y (FR)	0.06719	0.20750	0.60373
	A2->Y (FR)	0.06471	0.21153	0.63499
	A3->Y (FR)	0.06011	0.20702	0.62994

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7L	A0->Y (RF)	0.01038	0.05125	0.19467
	A1->Y (RF)	0.00372	0.04965	0.19267
	A2->Y (RF)	-0.00339	0.04806	0.19125
	A3->Y (RF)	-0.01104	0.04632	0.18889

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	A0	0.00109	0.00117	0.00163
	A0	-0.00010	-0.00009	-0.00009
	A0	0.00006	0.00006	0.00006
	A0	-0.00010	-0.00001	0.00045
	A1	0.00097	0.00105	0.00150
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	-0.00004	0.00005	0.00049
	A2	0.00087	0.00096	0.00141
	A2	-0.00005	-0.00004	-0.00003
	A2	0.00006	0.00006	0.00006
	A2	-0.00004	0.00005	0.00050
	A3	0.00078	0.00090	0.00146
	A3	-0.00002	-0.00001	0.00000
	A3	0.00006	0.00006	0.00006
	A3	-0.00007	0.00005	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	**A0**	-0.00007	0.00004	0.00060
	A0	0.00009	0.00009	0.00010
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00105	0.00118	0.00173
	A1	-0.00006	0.00005	0.00057
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00090	0.00103	0.00155
	A2	-0.00006	0.00005	0.00055
	A2	0.00003	0.00004	0.00005
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00082	0.00094	0.00145
	A3	-0.00005	0.00007	0.00064
	A3	0.00000	0.00001	0.00002
	A3	-0.00006	-0.00006	-0.00006
	A3	0.00080	0.00092	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A1 * A3 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00032	-0.00031	-0.00031

NOR4X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P7H7L	0.00071	0.00071	0.00075	0.00084	0.01294

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P7H7L	0.00000	0.34003	4.64955

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7L	A0->Y (FR)	0.06504	0.20041	0.57633
	A1->Y (FR)	0.06298	0.20462	0.60474
	A2->Y (FR)	0.06033	0.20847	0.63626
	A3->Y (FR)	0.05531	0.20350	0.63075

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7L	A0->Y (RF)	0.00766	0.05005	0.19554
	A1->Y (RF)	0.00077	0.04841	0.19209
	A2->Y (RF)	-0.00641	0.04681	0.19057
	A3->Y (RF)	-0.01441	0.04496	0.18869

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	A0	0.00118	0.00127	0.00179
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00007	0.00007	0.00007
	A0	-0.00010	-0.00001	0.00051
	A1	0.00105	0.00114	0.00165
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00007	0.00007	0.00007
	A1	-0.00005	0.00005	0.00055
	A2	0.00093	0.00103	0.00154
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00007	0.00007	0.00007
	A2	-0.00005	0.00006	0.00056
	A3	0.00083	0.00096	0.00160
	A3	-0.00002	-0.00002	0.00000
	A3	0.00007	0.00007	0.00007
	A3	-0.00008	0.00006	0.00069

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	**A0**	-0.00007	0.00005	0.00066
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00114	0.00128	0.00189
	A1	-0.00007	0.00005	0.00063
	A1	0.00008	0.00008	0.00008
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00098	0.00111	0.00170
	A2	-0.00007	0.00006	0.00062
	A2	0.00005	0.00005	0.00006
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00089	0.00102	0.00159
	A3	-0.00022	0.00007	0.00072
	A3	0.00000	0.00002	0.00039
	A3	-0.00007	-0.00007	-0.00007
	A3	0.00084	0.00098	0.00163

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A1 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A1 * A3 * !Y)	0.00009	0.00010	0.00010
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * !A3 * !Y)	0.00009	0.00010	0.00010
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !A3 * !Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00021	0.00021	0.00021
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00004
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * A3 * !Y)	-0.00010	-0.00010	-0.00008
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !A3 * !Y)	-0.00010	-0.00010	-0.00008
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00004	0.00003	0.00004
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00023	0.00024	0.00025

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00032	0.00033	0.00033

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00033	-0.00033	-0.00032

NOR4X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1H7L	0.00075	0.00079	0.00085	0.00089	0.01545

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1H7L	0.00000	0.37527	5.13102

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7L	A0->Y (FR)	0.05714	0.19495	0.57801
	A1->Y (FR)	0.05614	0.19984	0.60830
	A2->Y (FR)	0.05298	0.20303	0.63833
	A3->Y (FR)	0.04618	0.19659	0.62975

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7L	A0->Y (RF)	0.00307	0.04869	0.19760
	A1->Y (RF)	-0.00395	0.04730	0.19529
	A2->Y (RF)	-0.01171	0.04550	0.19307
	A3->Y (RF)	-0.02051	0.04321	0.19048

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7L	A0	0.00127	0.00137	0.00200
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00008	0.00009	0.00009
	A0	-0.00014	-0.00003	0.00059
	A1	0.00113	0.00123	0.00184
	A1	-0.00010	-0.00010	-0.00008
	A1	0.00008	0.00009	0.00009
	A1	-0.00009	0.00001	0.00062
	A2	0.00098	0.00109	0.00170
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00008	0.00009	0.00009
	A2	-0.00010	0.00002	0.00062
	A3	0.00083	0.00099	0.00176
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00008	0.00009	0.00009
	A3	-0.00012	0.00004	0.00080

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7L	A0	-0.00009	0.00005	0.00077
	A0	0.00013	0.00013	0.00013
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00122	0.00140	0.00211
	A1	-0.00008	0.00006	0.00073
	A1	0.00008	0.00010	0.00010
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00107	0.00124	0.00192
	A2	-0.00007	0.00006	0.00072
	A2	0.00005	0.00006	0.00007
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00097	0.00112	0.00179
	A3	-0.00006	0.00009	0.00086
	A3	0.00001	0.00002	0.00002
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00089	0.00104	0.00182

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A1 * A3 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A2 * !A3 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !A3 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * A3 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00008
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00027	0.00028	0.00029

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00035	0.00035	0.00035
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00035	0.00035	0.00036

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00035	-0.00035	-0.00034

NOR4X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1P4H7L	0.00086	0.00087	0.00091	0.00100	0.01743

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1P4H7L	0.00000	0.41444	5.66949

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7L	A0->Y (FR)	0.05911	0.19689	0.58103
	A1->Y (FR)	0.05723	0.20104	0.60995
	A2->Y (FR)	0.05356	0.20378	0.63849
	A3->Y (FR)	0.04768	0.19805	0.63218

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7L	A0->Y (RF)	0.00405	0.04883	0.19669
	A1->Y (RF)	-0.00292	0.04726	0.19445
	A2->Y (RF)	-0.01072	0.04540	0.19255
	A3->Y (RF)	-0.01937	0.04331	0.19032

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	A0	0.00153	0.00165	0.00233
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	0.00003	0.00071
	A1	0.00136	0.00147	0.00214
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	0.00008	0.00074
	A2	0.00119	0.00132	0.00199
	A2	-0.00007	-0.00007	-0.00006
	A2	0.00010	0.00010	0.00010
	A2	-0.00004	0.00009	0.00076
	A3	0.00103	0.00121	0.00206
	A3	-0.00003	-0.00002	-0.00002
	A3	0.00010	0.00010	0.00010
	A3	-0.00007	0.00011	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	**A0**	-0.00010	0.00005	0.00083
	A0	0.00015	0.00015	0.00015
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00141	0.00160	0.00238
	A1	-0.00011	0.00006	0.00081
	A1	0.00011	0.00011	0.00014
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00123	0.00141	0.00217
	A2	-0.00008	0.00007	0.00079
	A2	0.00006	0.00007	0.00008
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00110	0.00128	0.00201
	A3	-0.00007	0.00010	0.00094
	A3	0.00002	0.00002	0.00003
	A3	-0.00010	-0.00010	-0.00010
	A3	0.00102	0.00119	0.00205

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A1 * A3 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !A2 * A3 * !Y)	-0.00013	-0.00011	-0.00009
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A1 * A3 * !Y)	0.00013	0.00013	0.00013
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !A3 * !Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * A3 * !Y)	0.00012	0.00013	0.00013
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00025	0.00026	0.00026
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A2 * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00025	0.00026	0.00027
	(!A0 * !A2 * A3 * !Y)	-0.00013	-0.00012	-0.00009
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00025	0.00026	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A2 * A3 * !Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A2 * !A3 * !Y)	0.00014	0.00014	0.00015
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A2 * A3 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00026	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00027	0.00028	0.00029

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027

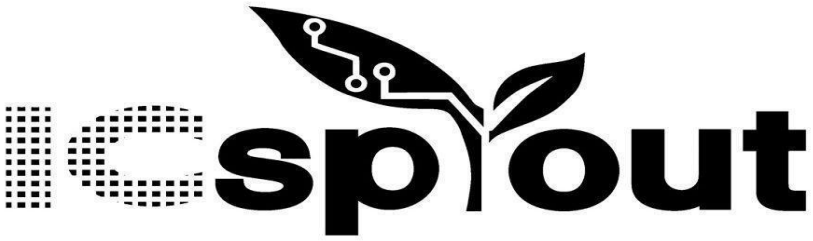
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00038	-0.00038	-0.00038
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00038	-0.00038	-0.00037

NOR4X2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X2H7L	0.00094	0.00097	0.00097	0.00105	0.02069

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X2H7L	0.00000	0.48158	6.58632

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7L	A0->Y (FR)	0.05159	0.19143	0.58048
	A1->Y (FR)	0.05016	0.19582	0.61187
	A2->Y (FR)	0.04576	0.19774	0.63964
	A3->Y (FR)	0.03903	0.19148	0.63193

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7L	A0->Y (RF)	-0.00342	0.04592	0.19292
	A1->Y (RF)	-0.01079	0.04444	0.19106
	A2->Y (RF)	-0.01922	0.04242	0.18951
	A3->Y (RF)	-0.02878	0.04007	0.18701

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7L	A0	0.00162	0.00176	0.00261
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00012	0.00012	0.00012
	A0	-0.00014	-0.00000	0.00084
	A1	0.00142	0.00156	0.00239
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00012	0.00012	0.00012
	A1	-0.00009	0.00005	0.00087
	A2	0.00121	0.00136	0.00220
	A2	-0.00009	-0.00008	-0.00007
	A2	0.00012	0.00012	0.00012
	A2	-0.00009	0.00006	0.00090
	A3	0.00101	0.00122	0.00229
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00012	0.00012	0.00012
	A3	-0.00012	0.00011	0.00116

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7L	A0	-0.00012	0.00006	0.00101
	A0	0.00018	0.00018	0.00018
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00150	0.00174	0.00269
	A1	-0.00011	0.00007	0.00097
	A1	0.00013	0.00013	0.00013
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00129	0.00153	0.00243
	A2	-0.00012	0.00008	0.00096
	A2	0.00007	0.00008	0.00012
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00114	0.00135	0.00224
	A3	-0.00009	0.00012	0.00115
	A3	0.00002	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00012
	A3	0.00101	0.00123	0.00228

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A1 * A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00031	0.00032	0.00032
	(A1 * A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * A3 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !A3 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !A2 * A3 * !Y)	-0.00015	-0.00013	-0.00011
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A1 * A3 * !Y)	0.00015	0.00015	0.00016
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * A2 * !A3 * !Y)	0.00015	0.00015	0.00016
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * !A3 * !Y)	0.00016	0.00016	0.00017
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * !A3 * !Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00027	0.00028	0.00028
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A2 * A3 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00027	0.00028	0.00029
	(!A0 * !A2 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !A3 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A2 * A3 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00028	-0.00027	-0.00027

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00028	0.00028	0.00029
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00028	0.00029	0.00030
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * A3 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00028	0.00029	0.00030

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * A3 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00028	-0.00028	-0.00028

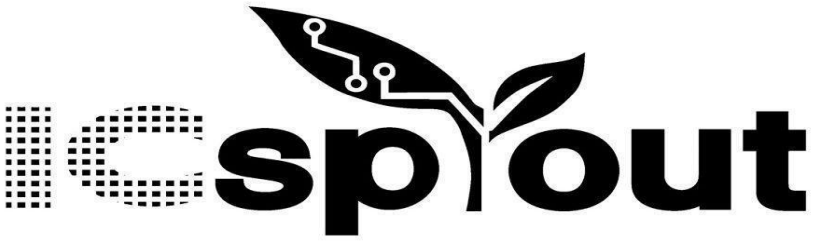
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00039	0.00039	0.00039
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00038	0.00039	0.00039

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00039	-0.00039	-0.00039
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00039	-0.00039	-0.00039
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00039	-0.00038	-0.00038

NOR4X3H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X3H7L	0.00166	0.00163	0.00162	0.00173	0.03190

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X3H7L	0.00000	0.78215	10.71240

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7L	A0->Y (FR)	0.05640	0.19641	0.58347
	A1->Y (FR)	0.05447	0.19960	0.61229
	A2->Y (FR)	0.04835	0.19964	0.64041
	A3->Y (FR)	0.03735	0.18970	0.62978

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7L	A0->Y (RF)	-0.00108	0.04722	0.19547
	A1->Y (RF)	-0.00853	0.04562	0.19363
	A2->Y (RF)	-0.01820	0.04323	0.19029
	A3->Y (RF)	-0.03040	0.04004	0.18714

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7L	A0	0.00310	0.00330	0.00453
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00018	0.00018	0.00018
	A0	-0.00003	0.00016	0.00139
	A1	0.00267	0.00287	0.00410
	A1	-0.00022	-0.00020	-0.00019
	A1	0.00018	0.00018	0.00018
	A1	-0.00002	0.00019	0.00141
	A2	0.00220	0.00243	0.00373
	A2	-0.00013	-0.00012	-0.00009
	A2	0.00018	0.00018	0.00018
	A2	-0.00007	0.00016	0.00145
	A3	0.00172	0.00207	0.00377
	A3	-0.00005	-0.00004	-0.00000
	A3	0.00018	0.00018	0.00018
	A3	-0.00014	0.00022	0.00191

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7L	A0	-0.00020	0.00008	0.00154
	A0	0.00027	0.00027	0.00027
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00270	0.00302	0.00448
	A1	-0.00020	0.00011	0.00151
	A1	0.00019	0.00020	0.00025
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00231	0.00268	0.00408
	A2	-0.00016	0.00016	0.00154
	A2	0.00009	0.00013	0.00024
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00206	0.00238	0.00376
	A3	-0.00011	0.00023	0.00186
	A3	0.00000	0.00004	0.00006
	A3	-0.00018	-0.00018	-0.00018
	A3	0.00172	0.00207	0.00373

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A1 * A3 * !Y)	-0.00028	-0.00026	-0.00022
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00053	0.00053	0.00053
	(A1 * A2 * !A3 * !Y)	-0.00028	-0.00026	-0.00022
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00053	0.00053	0.00054
	(A1 * !A2 * !A3 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00053	0.00053	0.00054
	(!A1 * A2 * A3 * !Y)	-0.00027	-0.00024	-0.00019
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00053	0.00053	0.00054
	(!A1 * A2 * !A3 * !Y)	-0.00028	-0.00024	-0.00019
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00053	0.00053	0.00053
	(!A1 * !A2 * A3 * !Y)	-0.00027	-0.00023	-0.00018
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00053	0.00053	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00053	-0.00053	-0.00052
	(A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00053	-0.00053	-0.00052
	(A1 * !A2 * !A3 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00052	-0.00052	-0.00052
	(!A1 * A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00053	-0.00053	-0.00052
	(!A1 * !A2 * A3 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00053	-0.00053	-0.00052

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00050	0.00051	0.00051
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00008	-0.00009	-0.00008
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00051	0.00051	0.00052
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00051	0.00052	0.00052
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00051	0.00051	0.00051
	(!A0 * A2 * A3 * !Y)	-0.00034	-0.00032	-0.00027
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00047	0.00047	0.00047
	(!A0 * A2 * !A3 * !Y)	-0.00035	-0.00032	-0.00027
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00047	0.00047	0.00048
	(!A0 * !A2 * A3 * !Y)	-0.00034	-0.00029	-0.00023
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00047	0.00048	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00008	0.00009	0.00008
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00051	-0.00051	-0.00051
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00051	-0.00051	-0.00050
	(!A0 * A2 * A3 * !Y)	0.00034	0.00034	0.00034
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A2 * !A3 * !Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00046	-0.00046	-0.00046
	(!A0 * !A2 * A3 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00047	-0.00047	-0.00046

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00051	0.00052	0.00052
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00050	0.00051	0.00051
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00050	0.00052	0.00053
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00049	0.00051	0.00051
	(!A0 * !A1 * A3 * !Y)	-0.00034	-0.00030	-0.00024
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00046	0.00049	0.00052

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00051	-0.00051	-0.00051
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00051	-0.00050	-0.00050
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00051	-0.00050	-0.00049
	(!A0 * !A1 * A3 * !Y)	0.00036	0.00036	0.00036
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00045	-0.00045	-0.00044

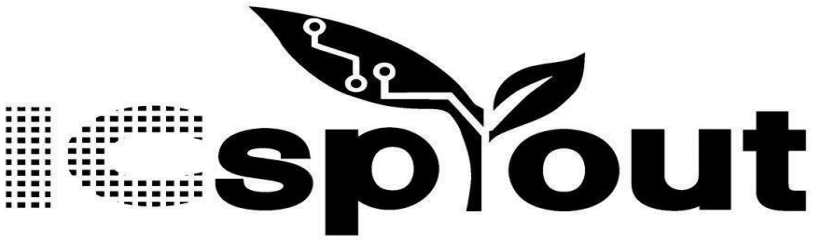
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00066	0.00066	0.00066
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00066	0.00066	0.00066
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00066	0.00066	0.00066

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7L	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00066	-0.00066	-0.00066
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00066	-0.00066	-0.00065

NOR4X4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X4H7L	0.00231	0.00227	0.00231	0.00237	0.04253

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X4H7L	0.00000	1.12517	15.45140

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7L	A0->Y (FR)	0.05667	0.19630	0.58201
	A1->Y (FR)	0.05433	0.19908	0.61113
	A2->Y (FR)	0.04839	0.19904	0.63843
	A3->Y (FR)	0.03674	0.18882	0.62729

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7L	A0->Y (RF)	-0.00279	0.04654	0.19359
	A1->Y (RF)	-0.01091	0.04478	0.19027
	A2->Y (RF)	-0.02077	0.04237	0.18748
	A3->Y (RF)	-0.03348	0.03893	0.18388

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7L	A0	0.00436	0.00462	0.00634
	A0	-0.00037	-0.00037	-0.00036
	A0	0.00024	0.00024	0.00025
	A0	-0.00011	0.00015	0.00185
	A1	0.00376	0.00404	0.00577
	A1	-0.00030	-0.00027	-0.00021
	A1	0.00024	0.00024	0.00025
	A1	-0.00008	0.00021	0.00193
	A2	0.00312	0.00343	0.00525
	A2	-0.00018	-0.00016	-0.00010
	A2	0.00024	0.00024	0.00025
	A2	-0.00013	0.00019	0.00200
	A3	0.00243	0.00292	0.00528
	A3	-0.00006	-0.00006	-0.00004
	A3	0.00024	0.00024	0.00025
	A3	-0.00018	0.00032	0.00267

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7L	A0	-0.00028	0.00011	0.00214
	A0	0.00036	0.00037	0.00037
	A0	-0.00025	-0.00024	-0.00024
	A0	0.00385	0.00430	0.00633
	A1	-0.00029	0.00010	0.00203
	A1	0.00021	0.00027	0.00030
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00330	0.00376	0.00570
	A2	-0.00023	0.00016	0.00206
	A2	0.00010	0.00016	0.00022
	A2	-0.00025	-0.00024	-0.00024
	A2	0.00285	0.00332	0.00525
	A3	-0.00023	0.00025	0.00252
	A3	0.00004	0.00006	0.00008
	A3	-0.00024	-0.00024	-0.00023
	A3	0.00235	0.00283	0.00513

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A1 * A3 * !Y)	-0.00040	-0.00036	-0.00031
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00077	0.00078	0.00078
	(A1 * A2 * !A3 * !Y)	-0.00040	-0.00036	-0.00031
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00077	0.00078	0.00078
	(A1 * !A2 * !A3 * !Y)	-0.00040	-0.00036	-0.00030
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00077	0.00078	0.00078
	(!A1 * A2 * A3 * !Y)	-0.00038	-0.00033	-0.00026
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00078	0.00078	0.00079
	(!A1 * A2 * !A3 * !Y)	-0.00039	-0.00033	-0.00026
	(!A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00077	0.00078	0.00079
	(!A1 * !A2 * A3 * !Y)	-0.00038	-0.00032	-0.00025
	(!A1 * !A2 * A3 * !Y)	-0.00006	-0.00004	-0.00003
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00078	0.00078	0.00079

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A1 * A3 * !Y)	0.00040	0.00040	0.00040
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00078	-0.00077	-0.00077
	(A1 * A2 * !A3 * !Y)	0.00040	0.00040	0.00040
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00078	-0.00077	-0.00077
	(A1 * !A2 * !A3 * !Y)	0.00043	0.00044	0.00044
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00077	-0.00077	-0.00077
	(!A1 * A2 * A3 * !Y)	0.00038	0.00038	0.00038
	(!A1 * A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00078	-0.00077	-0.00077
	(!A1 * A2 * !A3 * !Y)	0.00039	0.00040	0.00040
	(!A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00077	-0.00077	-0.00077
	(!A1 * !A2 * A3 * !Y)	0.00038	0.00038	0.00039
	(!A1 * !A2 * A3 * !Y)	0.00003	0.00004	0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00078	-0.00077	-0.00077

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00073	0.00073	0.00074
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00073	0.00073	0.00074
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00072	0.00073	0.00073
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00073	0.00073	0.00073
	(!A0 * A2 * A3 * !Y)	-0.00050	-0.00046	-0.00040
	(!A0 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00068	0.00068	0.00069
	(!A0 * A2 * !A3 * !Y)	-0.00050	-0.00046	-0.00038
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00068	0.00069	0.00070
	(!A0 * !A2 * A3 * !Y)	-0.00049	-0.00042	-0.00033
	(!A0 * !A2 * A3 * !Y)	-0.00005	-0.00003	-0.00003
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00068	0.00070	0.00072

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00073	-0.00073	-0.00073
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00073	-0.00073	-0.00073
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00073	-0.00073	-0.00072
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00073	-0.00073	-0.00073
	(!A0 * A2 * A3 * !Y)	0.00049	0.00050	0.00050
	(!A0 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00068	-0.00068	-0.00067
	(!A0 * A2 * !A3 * !Y)	0.00052	0.00053	0.00053
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00068	-0.00068	-0.00067
	(!A0 * !A2 * A3 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !A2 * A3 * !Y)	0.00003	0.00003	0.00005
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00068	-0.00068	-0.00067

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00073	0.00075	0.00075
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00073	0.00073	0.00073
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00073	0.00075	0.00077
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00071	0.00073	0.00074
	(!A0 * !A1 * A3 * !Y)	-0.00049	-0.00044	-0.00035
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00068	0.00073	0.00082

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00073	-0.00073	-0.00073
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00073	-0.00073	-0.00073
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00073	-0.00073	-0.00073
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00007	0.00008	0.00008
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00073	-0.00072	-0.00070
	(!A0 * !A1 * A3 * !Y)	0.00053	0.00053	0.00054
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00067	-0.00067	-0.00066

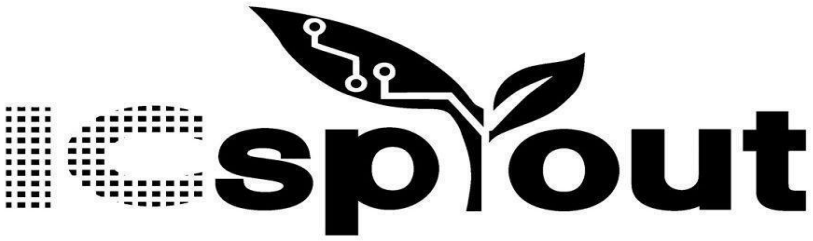
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00091	0.00091	0.00092
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00091	0.00092	0.00092
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00089	0.00091	0.00091

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00006	0.00006
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00091	-0.00091	-0.00091
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00091	-0.00091	-0.00090
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00091	-0.00091	-0.00089

NOR4X6H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X6H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X6H7L	0.00284	0.00285	0.00290	0.00296	0.06107

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X6H7L	0.00000	1.44473	19.75890

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7L	A0->Y (FR)	0.04812	0.18965	0.58303
	A1->Y (FR)	0.04599	0.19278	0.61205
	A2->Y (FR)	0.04050	0.19327	0.64056
	A3->Y (FR)	0.03024	0.18429	0.63093

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7L	A0->Y (RF)	-0.00902	0.04428	0.19249
	A1->Y (RF)	-0.01731	0.04257	0.19047
	A2->Y (RF)	-0.02737	0.04017	0.18753
	A3->Y (RF)	-0.03984	0.03694	0.18443

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7L	A0	0.00534	0.00573	0.00828
	A0	-0.00055	-0.00054	-0.00053
	A0	0.00036	0.00036	0.00036
	A0	-0.00033	0.00006	0.00260
	A1	0.00459	0.00500	0.00756
	A1	-0.00042	-0.00039	-0.00028
	A1	0.00036	0.00036	0.00036
	A1	-0.00027	0.00015	0.00268
	A2	0.00377	0.00422	0.00688
	A2	-0.00027	-0.00024	-0.00021
	A2	0.00036	0.00036	0.00036
	A2	-0.00032	0.00014	0.00278
	A3	0.00291	0.00360	0.00699
	A3	-0.00009	-0.00008	-0.00005
	A3	0.00036	0.00036	0.00036
	A3	-0.00038	0.00032	0.00370

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7L	A0	-0.00039	0.00015	0.00300
	A0	0.00053	0.00054	0.00055
	A0	-0.00036	-0.00036	-0.00036
	A0	0.00482	0.00548	0.00832
	A1	-0.00039	0.00014	0.00285
	A1	0.00028	0.00039	0.00042
	A1	-0.00036	-0.00036	-0.00036
	A1	0.00409	0.00479	0.00751
	A2	-0.00034	0.00022	0.00289
	A2	0.00021	0.00024	0.00029
	A2	-0.00036	-0.00036	-0.00036
	A2	0.00357	0.00420	0.00690
	A3	-0.00032	0.00035	0.00356
	A3	0.00005	0.00008	0.00011
	A3	-0.00036	-0.00036	-0.00034
	A3	0.00293	0.00360	0.00686

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A1 * A3 * !Y)	-0.00053	-0.00049	-0.00043
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00087	0.00088	0.00088
	(A1 * A2 * !A3 * !Y)	-0.00053	-0.00049	-0.00043
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00088	0.00088	0.00089
	(A1 * !A2 * !A3 * !Y)	-0.00053	-0.00049	-0.00042
	(A1 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !A3 * !Y)	0.00088	0.00089	0.00091
	(!A1 * A2 * A3 * !Y)	-0.00051	-0.00045	-0.00036
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * A3 * !Y)	0.00088	0.00088	0.00089
	(!A1 * A2 * !A3 * !Y)	-0.00052	-0.00045	-0.00036
	(!A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00088	0.00089	0.00089
	(!A1 * !A2 * A3 * !Y)	-0.00051	-0.00044	-0.00035
	(!A1 * !A2 * A3 * !Y)	-0.00005	-0.00004	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00088	0.00089	0.00090

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A1 * A3 * !Y)	0.00053	0.00053	0.00053
	(A1 * A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00088	-0.00088	-0.00087
	(A1 * A2 * !A3 * !Y)	0.00053	0.00053	0.00054
	(A1 * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00088	-0.00088	-0.00087
	(A1 * !A2 * !A3 * !Y)	0.00057	0.00058	0.00058
	(A1 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00088	-0.00088	-0.00087
	(!A1 * A2 * A3 * !Y)	0.00051	0.00051	0.00051
	(!A1 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00088	-0.00088	-0.00087
	(!A1 * A2 * !A3 * !Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00088	-0.00088	-0.00088
	(!A1 * !A2 * A3 * !Y)	0.00051	0.00052	0.00052
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00004	0.00005
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00089	-0.00088	-0.00087

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00082	0.00083	0.00083
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00083	0.00083	0.00084
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00083	0.00083	0.00083
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00083	0.00083	0.00083
	(!A0 * A2 * A3 * !Y)	-0.00063	-0.00058	-0.00051
	(!A0 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00079	0.00079	0.00080
	(!A0 * A2 * !A3 * !Y)	-0.00063	-0.00058	-0.00049
	(!A0 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !A3 * !Y)	0.00079	0.00080	0.00084
	(!A0 * !A2 * A3 * !Y)	-0.00062	-0.00053	-0.00042
	(!A0 * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00079	0.00081	0.00083

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00083	-0.00083	-0.00082
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00017	0.00018	0.00018
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00083	-0.00083	-0.00082
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00017	0.00018	0.00018
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00083	-0.00082	-0.00081
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00083	-0.00082	-0.00082
	(!A0 * A2 * A3 * !Y)	0.00062	0.00063	0.00063
	(!A0 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00079	-0.00079	-0.00078
	(!A0 * A2 * !A3 * !Y)	0.00066	0.00066	0.00067
	(!A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00079	-0.00078	-0.00078
	(!A0 * !A2 * A3 * !Y)	0.00062	0.00063	0.00063
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00003	0.00004
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00079	-0.00079	-0.00078

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00084	0.00085	0.00086
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A3 * !Y)	0.00083	0.00084	0.00084
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00083	0.00086	0.00090
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00083	0.00083	0.00084
	(!A0 * !A1 * A3 * !Y)	-0.00063	-0.00056	-0.00045
	(!A0 * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * A3 * !Y)	0.00079	0.00085	0.00096

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00017	0.00017	0.00018
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00084	-0.00083	-0.00083
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00083	-0.00083	-0.00083
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00083	-0.00082	-0.00082
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00011	0.00012	0.00012
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00083	-0.00082	-0.00081
	(!A0 * !A1 * A3 * !Y)	0.00067	0.00067	0.00068
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00079	-0.00078	-0.00077

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00108	0.00108	0.00109
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00108	0.00108	0.00108
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * !Y)	0.00107	0.00108	0.00109

Passive power(pJ) for A3 falling (conditional):

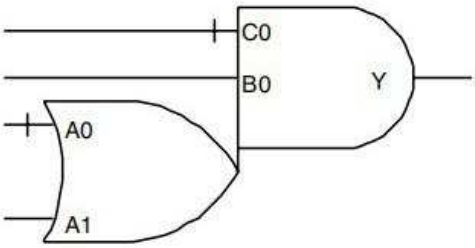
Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7L	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00008	0.00008	0.00008
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00108	-0.00108	-0.00107
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00108	-0.00108	-0.00107
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00108	-0.00107	-0.00105

OA211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P5H7L	0.00074	0.00076	0.00070	0.00081	0.04518

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P5H7L	0.00000	0.90976	1.75785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7L	A0->Y (RR)	0.05681	0.18690	0.50577
	A1->Y (RR)	0.05385	0.18234	0.49996
	B0->Y (RR)	0.05220	0.18624	0.51790
	C0->Y (RR)	0.05088	0.18509	0.51631

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7L	A0->Y (FF)	0.06144	0.17556	0.45238
	A1->Y (FF)	0.05894	0.17556	0.45763
	B0->Y (FF)	0.03372	0.14052	0.39954
	C0->Y (FF)	0.03264	0.13742	0.39523

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7L	A0	0.00038	0.00050	0.00095
	A0	0.00006	0.00006	0.00006
	A0	-0.00008	-0.00007	-0.00005
	A0	0.00158	0.00172	0.00217
	A1	0.00038	0.00052	0.00103
	A1	0.00003	0.00003	0.00004
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00146	0.00160	0.00212
	B0	0.00038	0.00057	0.00126
	B0	0.00006	0.00006	0.00006
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00130	0.00147	0.00211
	C0	0.00037	0.00060	0.00145
	C0	0.00006	0.00006	0.00006
	C0	0.00000	0.00000	0.00000
	C0	0.00122	0.00143	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7L	A0	0.00169	0.00183	0.00242
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00007	0.00007	0.00008
	A0	0.00048	0.00062	0.00122
	A1	0.00156	0.00175	0.00253
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00050	0.00069	0.00147
	B0	0.00135	0.00160	0.00248
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00003	0.00003	0.00003
	B0	0.00043	0.00068	0.00158
	C0	0.00129	0.00154	0.00249
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00000	0.00000	0.00000
	C0	0.00043	0.00069	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00012	0.00013	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00017
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

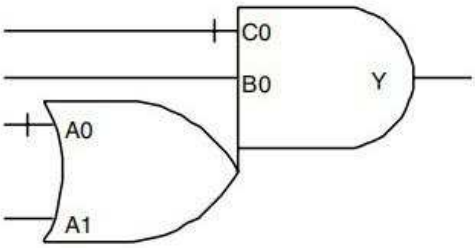
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7L	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P7H7L	0.00074	0.00075	0.00070	0.00082	0.05130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P7H7L	0.00000	0.93279	1.82964

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7L	A0->Y (RR)	0.05612	0.18684	0.50675
	A1->Y (RR)	0.05303	0.18223	0.50061
	B0->Y (RR)	0.05144	0.18631	0.51898
	C0->Y (RR)	0.05015	0.18521	0.51799

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7L	A0->Y (FF)	0.06093	0.17516	0.45130
	A1->Y (FF)	0.05837	0.17516	0.45639
	B0->Y (FF)	0.03303	0.13984	0.39821
	C0->Y (FF)	0.03197	0.13677	0.39389

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7L	A0	0.00040	0.00051	0.00099
	A0	0.00006	0.00006	0.00006
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00162	0.00173	0.00221
	A1	0.00040	0.00053	0.00107
	A1	0.00003	0.00003	0.00003
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00147	0.00161	0.00215
	B0	0.00040	0.00059	0.00129
	B0	0.00006	0.00006	0.00006
	B0	-0.00003	-0.00003	-0.00000
	B0	0.00130	0.00148	0.00214
	C0	0.00039	0.00062	0.00149
	C0	0.00006	0.00006	0.00006
	C0	0.00000	0.00000	0.00002
	C0	0.00123	0.00144	0.00225

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7L	A0	0.00171	0.00185	0.00248
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00051	0.00065	0.00128
	A1	0.00158	0.00178	0.00259
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00007	0.00007	0.00007
	A1	0.00053	0.00072	0.00154
	B0	0.00138	0.00162	0.00254
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00002	0.00003	0.00005
	B0	0.00046	0.00071	0.00164
	C0	0.00131	0.00156	0.00255
	C0	-0.00003	-0.00003	-0.00003
	C0	-0.00000	-0.00000	0.00000
	C0	0.00046	0.00072	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00017	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

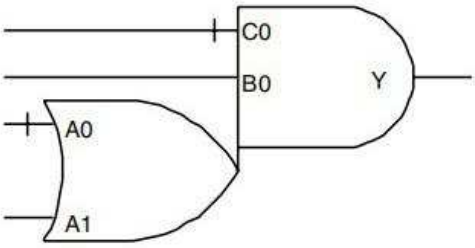
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7L	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1H7L	0.00074	0.00076	0.00070	0.00081	0.06109

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1H7L	0.00000	0.97233	1.95003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7L	A0->Y (RR)	0.05575	0.18775	0.50959
	A1->Y (RR)	0.05264	0.18312	0.50364
	B0->Y (RR)	0.05103	0.18721	0.52202
	C0->Y (RR)	0.04973	0.18615	0.52064

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7L	A0->Y (FF)	0.06114	0.17730	0.45727
	A1->Y (FF)	0.05850	0.17729	0.46229
	B0->Y (FF)	0.03269	0.14125	0.40320
	C0->Y (FF)	0.03166	0.13823	0.39885

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7L	A0	0.00044	0.00056	0.00107
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00166	0.00178	0.00229
	A1	0.00044	0.00058	0.00115
	A1	0.00002	0.00003	0.00003
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00151	0.00165	0.00222
	B0	0.00044	0.00063	0.00137
	B0	0.00005	0.00005	0.00005
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00135	0.00152	0.00221
	C0	0.00043	0.00067	0.00158
	C0	0.00005	0.00005	0.00005
	C0	0.00001	0.00001	0.00004
	C0	0.00126	0.00148	0.00234

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7L	A0	0.00176	0.00190	0.00256
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00007	0.00007	0.00007
	A0	0.00056	0.00070	0.00137
	A1	0.00163	0.00182	0.00269
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00007	0.00007	0.00007
	A1	0.00058	0.00077	0.00165
	B0	0.00142	0.00167	0.00263
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00001	0.00003	0.00003
	B0	0.00051	0.00076	0.00173
	C0	0.00135	0.00161	0.00263
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00001	-0.00001	0.00000
	C0	0.00051	0.00077	0.00181

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00008
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

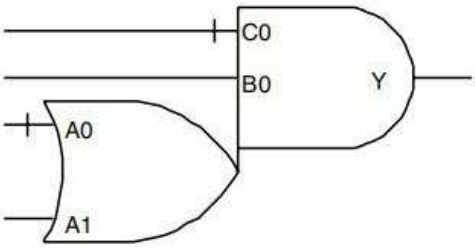
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7L	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1P4H7L	0.00075	0.00076	0.00070	0.00081	0.06955

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1P4H7L	0.00000	1.01618	2.08468

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7L	A0->Y (RR)	0.05573	0.18829	0.51079
	A1->Y (RR)	0.05259	0.18363	0.50453
	B0->Y (RR)	0.05094	0.18781	0.52312
	C0->Y (RR)	0.04970	0.18674	0.52201

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7L	A0->Y (FF)	0.06131	0.17767	0.45679
	A1->Y (FF)	0.05862	0.17766	0.46207
	B0->Y (FF)	0.03243	0.14109	0.40258
	C0->Y (FF)	0.03142	0.13809	0.39803

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7L	A0	0.00049	0.00060	0.00115
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00006	-0.00004
	A0	0.00168	0.00182	0.00236
	A1	0.00049	0.00062	0.00123
	A1	0.00002	0.00002	0.00002
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00155	0.00169	0.00230
	B0	0.00049	0.00068	0.00145
	B0	0.00005	0.00005	0.00005
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00139	0.00156	0.00229
	C0	0.00048	0.00071	0.00167
	C0	0.00005	0.00005	0.00005
	C0	0.00000	0.00001	0.00001
	C0	0.00131	0.00152	0.00243

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7L	A0	0.00179	0.00194	0.00265
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00006	0.00007	0.00007
	A0	0.00059	0.00074	0.00146
	A1	0.00166	0.00186	0.00279
	A1	-0.00002	-0.00002	0.00000
	A1	0.00006	0.00007	0.00007
	A1	0.00062	0.00081	0.00175
	B0	0.00145	0.00170	0.00272
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00002	0.00002	0.00002
	B0	0.00055	0.00080	0.00182
	C0	0.00138	0.00164	0.00272
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00054	0.00081	0.00189

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00008
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A0 * B0 * C0 * Y)	-0.00001	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

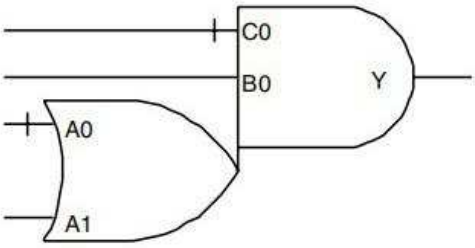
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7L	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X2H7L	0.00066	0.00076	0.00071	0.00079	0.09019

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X2H7L	0.00000	1.29480	2.84885

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7L	A0->Y (RR)	0.06003	0.19592	0.52347
	A1->Y (RR)	0.05792	0.19241	0.51858
	B0->Y (RR)	0.05709	0.19751	0.53815
	C0->Y (RR)	0.05544	0.19640	0.53701

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7L	A0->Y (FF)	0.06549	0.18633	0.47270
	A1->Y (FF)	0.06469	0.18785	0.47947
	B0->Y (FF)	0.03592	0.14872	0.41697
	C0->Y (FF)	0.03473	0.14567	0.41239

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7L	A0	0.00078	0.00092	0.00161
	A0	0.00005	0.00005	0.00005
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00189	0.00203	0.00272
	A1	0.00078	0.00092	0.00166
	A1	0.00001	0.00002	0.00002
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00178	0.00192	0.00266
	B0	0.00077	0.00096	0.00186
	B0	0.00005	0.00005	0.00005
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00161	0.00179	0.00267
	C0	0.00076	0.00101	0.00214
	C0	0.00005	0.00005	0.00005
	C0	0.00001	0.00001	0.00002
	C0	0.00152	0.00176	0.00285

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7L	A0	0.00203	0.00220	0.00313
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00006	0.00006	0.00006
	A0	0.00092	0.00110	0.00204
	A1	0.00193	0.00217	0.00337
	A1	-0.00002	-0.00002	-0.00000
	A1	0.00006	0.00006	0.00006
	A1	0.00095	0.00118	0.00240
	B0	0.00174	0.00201	0.00324
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00002	0.00002	0.00003
	B0	0.00090	0.00117	0.00240
	C0	0.00165	0.00193	0.00322
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00001	-0.00001	0.00001
	C0	0.00090	0.00117	0.00246

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00026	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00012
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00012	-0.00011	-0.00007
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00012	0.00013	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00012	0.00013	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

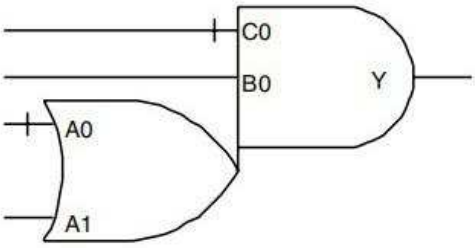
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7L	(A1 * !B0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007

OA211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X3H7L	0.00077	0.00086	0.00083	0.00090	0.12723

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X3H7L	0.00000	1.54839	3.44393

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7L	A0->Y (RR)	0.05325	0.18825	0.51374
	A1->Y (RR)	0.05082	0.18431	0.50839
	B0->Y (RR)	0.05094	0.19056	0.52870
	C0->Y (RR)	0.04893	0.18902	0.52655

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7L	A0->Y (FF)	0.05844	0.17753	0.45873
	A1->Y (FF)	0.05711	0.17832	0.46407
	B0->Y (FF)	0.03191	0.14310	0.40704
	C0->Y (FF)	0.03057	0.13988	0.40259

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7L	A0	0.00094	0.00112	0.00203
	A0	0.00006	0.00006	0.00006
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00230	0.00248	0.00339
	A1	0.00094	0.00113	0.00213
	A1	0.00001	0.00002	0.00003
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00213	0.00233	0.00332
	B0	0.00093	0.00117	0.00236
	B0	0.00006	0.00006	0.00006
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00196	0.00220	0.00335
	C0	0.00091	0.00124	0.00273
	C0	0.00006	0.00006	0.00006
	C0	0.00000	0.00002	0.00004
	C0	0.00183	0.00213	0.00357

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7L	A0	0.00242	0.00265	0.00387
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00008	0.00008	0.00008
	A0	0.00108	0.00131	0.00253
	A1	0.00228	0.00259	0.00417
	A1	-0.00002	-0.00002	0.00002
	A1	0.00008	0.00008	0.00008
	A1	0.00113	0.00142	0.00301
	B0	0.00208	0.00246	0.00408
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00001	0.00002	0.00002
	B0	0.00108	0.00142	0.00304
	C0	0.00199	0.00235	0.00405
	C0	-0.00002	-0.00002	-0.00002
	C0	-0.00002	-0.00002	0.00000
	C0	0.00108	0.00144	0.00314

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * B0 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00012
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00012
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00015	-0.00009
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00017	0.00018
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00018
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00019	0.00020
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

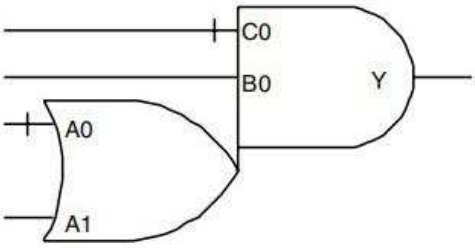
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7L	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00006

OA211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X4H7L	0.00084	0.00093	0.00089	0.00102	0.16388

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X4H7L	0.00000	1.83204	4.11847

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7L	A0->Y (RR)	0.05085	0.18598	0.51094
	A1->Y (RR)	0.04845	0.18202	0.50540
	B0->Y (RR)	0.04814	0.18792	0.52506
	C0->Y (RR)	0.04665	0.18672	0.52285

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7L	A0->Y (FF)	0.05815	0.17825	0.46058
	A1->Y (FF)	0.05654	0.17888	0.46583
	B0->Y (FF)	0.03090	0.14288	0.40807
	C0->Y (FF)	0.02980	0.13986	0.40344

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7L	A0	0.00108	0.00128	0.00242
	A0	0.00006	0.00006	0.00006
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00257	0.00278	0.00391
	A1	0.00108	0.00130	0.00253
	A1	0.00001	0.00002	0.00002
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00238	0.00261	0.00384
	B0	0.00107	0.00136	0.00281
	B0	0.00006	0.00006	0.00006
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00221	0.00248	0.00390
	C0	0.00105	0.00142	0.00324
	C0	0.00006	0.00006	0.00006
	C0	0.00002	0.00003	0.00004
	C0	0.00206	0.00241	0.00417

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7L	A0	0.00277	0.00303	0.00455
	A0	-0.00006	-0.00006	-0.00002
	A0	0.00008	0.00009	0.00009
	A0	0.00128	0.00155	0.00308
	A1	0.00260	0.00296	0.00491
	A1	-0.00002	-0.00002	0.00003
	A1	0.00008	0.00009	0.00009
	A1	0.00132	0.00168	0.00364
	B0	0.00236	0.00278	0.00477
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00001	0.00002	0.00002
	B0	0.00125	0.00166	0.00364
	C0	0.00226	0.00267	0.00475
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00126	0.00167	0.00374

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00016	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00022
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00028	-0.00026	-0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00028	-0.00026	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00009
	(!A0 * !A1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * !C0 * !Y)	0.00018	0.00019	0.00021
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00019	0.00020
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00009

Passive power(pJ) for C0 falling (conditional):

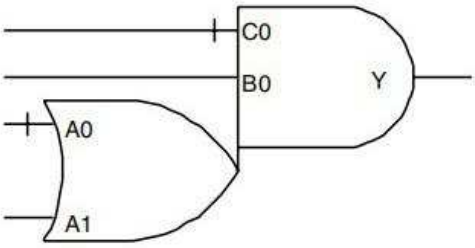
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7L	(A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00007	-0.00007

OA211X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X6H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X6H7L	0.00105	0.00111	0.00105	0.00115	0.24557

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X6H7L	0.00000	2.50814	5.90146

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7L	A0->Y (RR)	0.05754	0.19563	0.52547
	A1->Y (RR)	0.05447	0.19131	0.51958
	B0->Y (RR)	0.05419	0.19767	0.54005
	C0->Y (RR)	0.05232	0.19638	0.53864

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7L	A0->Y (FF)	0.06521	0.18883	0.47654
	A1->Y (FF)	0.06308	0.18922	0.48271
	B0->Y (FF)	0.03383	0.14947	0.42039
	C0->Y (FF)	0.03263	0.14647	0.41563

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7L	A0	0.00170	0.00197	0.00366
	A0	0.00006	0.00006	0.00006
	A0	-0.00009	-0.00008	-0.00002
	A0	0.00348	0.00379	0.00546
	A1	0.00171	0.00200	0.00377
	A1	0.00000	0.00001	0.00001
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00330	0.00359	0.00535
	B0	0.00170	0.00207	0.00415
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00000	0.00000
	B0	0.00310	0.00346	0.00550
	C0	0.00169	0.00216	0.00475
	C0	0.00006	0.00006	0.00007
	C0	0.00005	0.00006	0.00006
	C0	0.00290	0.00336	0.00589

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7L	A0	0.00382	0.00418	0.00643
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00008	0.00009	0.00009
	A0	0.00199	0.00238	0.00465
	A1	0.00357	0.00409	0.00698
	A1	-0.00001	-0.00000	0.00009
	A1	0.00008	0.00008	0.00009
	A1	0.00197	0.00252	0.00544
	B0	0.00325	0.00383	0.00666
	B0	-0.00001	-0.00000	0.00008
	B0	0.00000	0.00001	0.00002
	B0	0.00193	0.00243	0.00527
	C0	0.00316	0.00368	0.00660
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00006	-0.00005	-0.00005
	C0	0.00194	0.00247	0.00538

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * B0 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00036	0.00037	0.00038
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00026
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00039	0.00039	0.00039
	(A0 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00002
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00026	0.00027
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00018
	(!A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * !C0 * !Y)	0.00023	0.00024	0.00026
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !C0 * !Y)	0.00023	0.00024	0.00026
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !A1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * !B0 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for C0 falling (conditional):

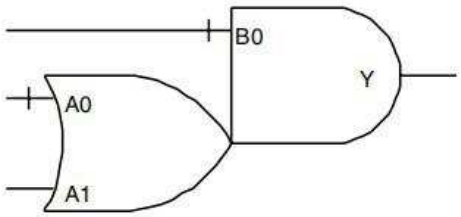
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7L	(A1 * !B0 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00006	-0.00005

OA21X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P5H7L	0.00067	0.00073	0.00081	0.04531

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P5H7L	0.00000	1.25345	1.53569

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7L	A0->Y (RR)	0.04019	0.16810	0.48178
	A1->Y (RR)	0.03883	0.16477	0.47597
	B0->Y (RR)	0.03817	0.16718	0.48775

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7L	A0->Y (FF)	0.05209	0.16345	0.43660
	A1->Y (FF)	0.05094	0.16439	0.44173
	B0->Y (FF)	0.03059	0.13509	0.39499

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7L	A0	0.00039	0.00054	0.00108
	A0	0.00004	0.00004	0.00004
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00136	0.00152	0.00206
	A1	0.00039	0.00056	0.00117
	A1	0.00001	0.00002	0.00002
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00120	0.00138	0.00199
	B0	0.00038	0.00065	0.00159
	B0	0.00004	0.00004	0.00004
	B0	0.00000	0.00000	0.00001
	B0	0.00110	0.00135	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7L	A0	0.00137	0.00153	0.00218
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00005	0.00005
	A0	0.00040	0.00056	0.00121
	A1	0.00127	0.00149	0.00231
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00004	0.00005	0.00005
	A1	0.00047	0.00068	0.00151
	B0	0.00116	0.00144	0.00247
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00000	0.00000	0.00000
	B0	0.00041	0.00071	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(!A0 * !A1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

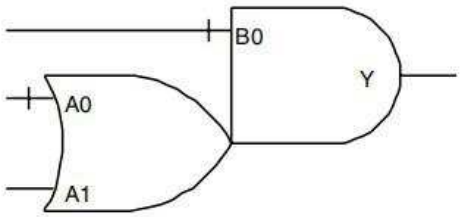
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7L	(!A0 * !A1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P7H7L	0.00067	0.00072	0.00079	0.05146

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P7H7L	0.00000	1.28773	1.60748

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7L	A0->Y (RR)	0.03954	0.16811	0.48367
	A1->Y (RR)	0.03813	0.16478	0.47785
	B0->Y (RR)	0.03739	0.16715	0.48862

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7L	A0->Y (FF)	0.05184	0.16334	0.43591
	A1->Y (FF)	0.05065	0.16425	0.44101
	B0->Y (FF)	0.03001	0.13449	0.39375

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7L	A0	0.00041	0.00057	0.00112
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00137	0.00153	0.00208
	A1	0.00041	0.00058	0.00121
	A1	0.00001	0.00001	0.00002
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00122	0.00139	0.00202
	B0	0.00040	0.00067	0.00163
	B0	0.00004	0.00004	0.00004
	B0	0.00000	0.00000	0.00003
	B0	0.00111	0.00136	0.00224

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7L	A0	0.00139	0.00156	0.00223
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00005
	A0	0.00044	0.00060	0.00127
	A1	0.00130	0.00151	0.00237
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00004	0.00004	0.00004
	A1	0.00050	0.00072	0.00157
	B0	0.00118	0.00146	0.00252
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00000	-0.00000	0.00000
	B0	0.00045	0.00075	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00023
	(!A1 * !B0 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00025	0.00025	0.00026
	(A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(!A0 * !A1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

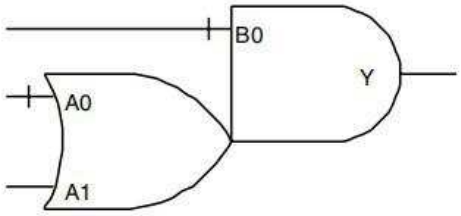
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7L	(!A0 * !A1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00004

OA21X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1H7L	0.00067	0.00072	0.00082	0.06123

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1H7L	0.00000	1.34592	1.72785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7L	A0->Y (RR)	0.03924	0.16904	0.48602
	A1->Y (RR)	0.03782	0.16578	0.48071
	B0->Y (RR)	0.03738	0.16837	0.49196

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7L	A0->Y (FF)	0.05240	0.16603	0.44255
	A1->Y (FF)	0.05126	0.16705	0.44810
	B0->Y (FF)	0.03013	0.13651	0.39937

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7L	A0	0.00045	0.00061	0.00119
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00142	0.00157	0.00216
	A1	0.00045	0.00062	0.00128
	A1	0.00001	0.00001	0.00001
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00126	0.00143	0.00209
	B0	0.00043	0.00071	0.00170
	B0	0.00004	0.00004	0.00004
	B0	0.00000	0.00001	0.00002
	B0	0.00116	0.00141	0.00233

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7L	A0	0.00145	0.00162	0.00233
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00049	0.00065	0.00137
	A1	0.00135	0.00157	0.00248
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00004	0.00004	0.00004
	A1	0.00055	0.00077	0.00168
	B0	0.00124	0.00153	0.00263
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00001	-0.00001	0.00001
	B0	0.00049	0.00079	0.00192

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(!A0 * !A1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

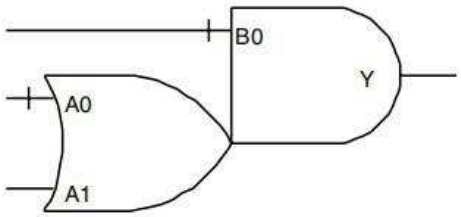
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7L	(!A0 * !A1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1P4H7L	0.00067	0.00073	0.00080	0.06980

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1P4H7L	0.00000	1.41072	1.86250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7L	A0->Y (RR)	0.03885	0.16946	0.48715
	A1->Y (RR)	0.03717	0.16593	0.48208
	B0->Y (RR)	0.03602	0.16766	0.49188

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7L	A0->Y (FF)	0.05279	0.16676	0.44291
	A1->Y (FF)	0.05114	0.16743	0.44826
	B0->Y (FF)	0.02906	0.13539	0.39744

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7L	A0	0.00047	0.00062	0.00124
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00141	0.00157	0.00218
	A1	0.00046	0.00064	0.00133
	A1	0.00000	0.00001	0.00001
	A1	-0.00004	-0.00003	-0.00002
	A1	0.00126	0.00144	0.00213
	B0	0.00045	0.00073	0.00178
	B0	0.00003	0.00003	0.00004
	B0	0.00000	0.00001	0.00002
	B0	0.00117	0.00142	0.00239

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7L	A0	0.00147	0.00167	0.00242
	A0	-0.00004	-0.00003	-0.00000
	A0	0.00003	0.00004	0.00004
	A0	0.00056	0.00073	0.00149
	A1	0.00140	0.00162	0.00259
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00004	0.00004	0.00004
	A1	0.00061	0.00083	0.00180
	B0	0.00123	0.00153	0.00269
	B0	-0.00001	-0.00001	0.00001
	B0	-0.00001	-0.00001	0.00000
	B0	0.00050	0.00081	0.00199

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00027	0.00028
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(A1 * B0 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(!A0 * !A1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

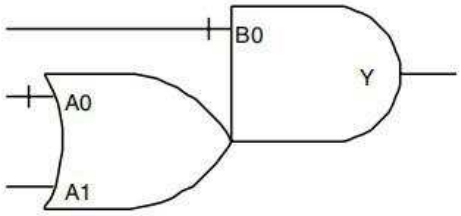
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7L	(!A0 * !A1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	-0.00008	-0.00008	-0.00007

OA21X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X2H7L	0.00068	0.00073	0.00081	0.09043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X2H7L	0.00000	1.80138	2.62661

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7L	A0->Y (RR)	0.04245	0.17623	0.49962
	A1->Y (RR)	0.04086	0.17302	0.49392
	B0->Y (RR)	0.04046	0.17577	0.50504

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7L	A0->Y (FF)	0.05785	0.17615	0.45942
	A1->Y (FF)	0.05655	0.17729	0.46616
	B0->Y (FF)	0.03258	0.14318	0.41171

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7L	A0	0.00072	0.00089	0.00164
	A0	0.00003	0.00003	0.00003
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00164	0.00181	0.00256
	A1	0.00072	0.00090	0.00172
	A1	0.00000	0.00000	0.00000
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00148	0.00166	0.00248
	B0	0.00069	0.00099	0.00216
	B0	0.00003	0.00003	0.00003
	B0	0.00001	0.00002	0.00005
	B0	0.00139	0.00166	0.00278

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7L	A0	0.00174	0.00193	0.00288
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00082	0.00101	0.00197
	A1	0.00164	0.00189	0.00311
	A1	-0.00000	-0.00000	0.00000
	A1	0.00003	0.00003	0.00003
	A1	0.00089	0.00113	0.00236
	B0	0.00151	0.00182	0.00317
	B0	-0.00000	-0.00000	0.00001
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00082	0.00113	0.00248

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(A1 * B0 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !Y)	0.00010	0.00011	0.00012
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(!A0 * !A1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

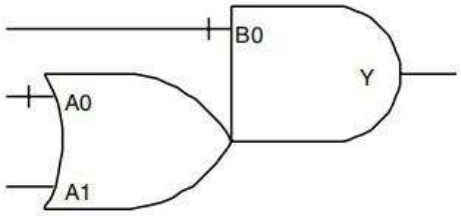
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7L	(!A0 * !A1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00007

OA21X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X3H7L	0.00079	0.00085	0.00097	0.12738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X3H7L	0.00000	2.16256	3.18903

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7L	A0->Y (RR)	0.03800	0.17124	0.49287
	A1->Y (RR)	0.03630	0.16790	0.48707
	B0->Y (RR)	0.03611	0.17071	0.49834

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7L	A0->Y (FF)	0.05246	0.16950	0.44809
	A1->Y (FF)	0.05100	0.17017	0.45341
	B0->Y (FF)	0.02901	0.13815	0.40267

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7L	A0	0.00085	0.00106	0.00205
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00197	0.00218	0.00317
	A1	0.00085	0.00108	0.00216
	A1	-0.00000	0.00000	0.00000
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00178	0.00202	0.00310
	B0	0.00082	0.00119	0.00272
	B0	0.00004	0.00004	0.00004
	B0	0.00001	0.00002	0.00003
	B0	0.00168	0.00202	0.00349

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7L	A0	0.00214	0.00238	0.00362
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00103	0.00126	0.00251
	A1	0.00200	0.00232	0.00392
	A1	-0.00000	0.00000	0.00000
	A1	0.00004	0.00004	0.00004
	A1	0.00108	0.00139	0.00300
	B0	0.00185	0.00224	0.00401
	B0	-0.00000	0.00000	0.00002
	B0	-0.00002	-0.00002	0.00000
	B0	0.00099	0.00138	0.00315

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(A1 * B0 * Y)	0.00012	0.00012	0.00013
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !Y)	0.00013	0.00014	0.00016
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !Y)	0.00016	0.00017	0.00019
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(!A0 * !A1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

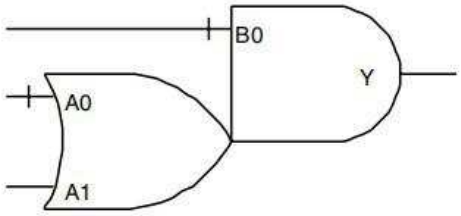
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7L	(!A0 * !A1 * !Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00007

OA21X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X4H7L	0.00085	0.00092	0.00102	0.16410

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X4H7L	0.00000	2.56278	3.84379

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7L	A0->Y (RR)	0.03572	0.16861	0.48889
	A1->Y (RR)	0.03399	0.16521	0.48439
	B0->Y (RR)	0.03370	0.16802	0.49415

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7L	A0->Y (FF)	0.05138	0.16884	0.44787
	A1->Y (FF)	0.04976	0.16939	0.45278
	B0->Y (FF)	0.02788	0.13741	0.40225

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7L	A0	0.00100	0.00125	0.00246
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00221	0.00246	0.00366
	A1	0.00101	0.00128	0.00260
	A1	-0.00001	-0.00001	0.00000
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00200	0.00228	0.00360
	B0	0.00097	0.00140	0.00325
	B0	0.00004	0.00004	0.00004
	B0	0.00000	0.00003	0.00004
	B0	0.00189	0.00227	0.00406

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7L	A0	0.00238	0.00266	0.00420
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00003	0.00004	0.00004
	A0	0.00117	0.00146	0.00300
	A1	0.00221	0.00260	0.00457
	A1	0.00000	0.00001	0.00006
	A1	0.00004	0.00004	0.00004
	A1	0.00124	0.00161	0.00359
	B0	0.00206	0.00251	0.00465
	B0	0.00000	0.00001	0.00001
	B0	-0.00003	-0.00003	0.00000
	B0	0.00116	0.00160	0.00375

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(A1 * B0 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(A1 * B0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	0.00015	0.00016	0.00018
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00029	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !Y)	0.00018	0.00019	0.00021
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(!A0 * !A1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

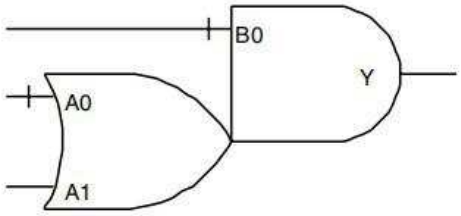
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7L	(!A0 * !A1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00006

OA21X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X6H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X6H7L	0.00096	0.00107	0.00118	0.24635

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X6H7L	0.00000	3.52112	5.58143

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7L	A0->Y (RR)	0.03991	0.17611	0.50176
	A1->Y (RR)	0.03812	0.17276	0.49658
	B0->Y (RR)	0.03823	0.17639	0.50726

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7L	A0->Y (FF)	0.05757	0.17872	0.46310
	A1->Y (FF)	0.05604	0.17958	0.46880
	B0->Y (FF)	0.03126	0.14464	0.41465

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7L	A0	0.00172	0.00205	0.00382
	A0	0.00003	0.00003	0.00003
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00309	0.00342	0.00519
	A1	0.00172	0.00207	0.00395
	A1	-0.00003	-0.00002	-0.00001
	A1	-0.00003	-0.00003	0.00000
	A1	0.00287	0.00322	0.00510
	B0	0.00170	0.00220	0.00477
	B0	0.00003	0.00003	0.00003
	B0	0.00005	0.00006	0.00006
	B0	0.00273	0.00323	0.00573

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7L	A0	0.00332	0.00370	0.00599
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00192	0.00232	0.00462
	A1	0.00312	0.00364	0.00657
	A1	0.00002	0.00003	0.00003
	A1	0.00003	0.00003	0.00003
	A1	0.00194	0.00249	0.00544
	B0	0.00295	0.00351	0.00650
	B0	0.00002	0.00003	0.00003
	B0	-0.00006	-0.00005	-0.00005
	B0	0.00190	0.00247	0.00546

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(A1 * B0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00035	0.00036
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	0.00033	0.00033	0.00034

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(A1 * B0 * Y)	0.00016	0.00017	0.00017
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !Y)	0.00018	0.00019	0.00022
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	-0.00031	-0.00030	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00037	0.00037	0.00038
	(A0 * !B0 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00001	0.00003	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00037	-0.00037	-0.00036
	(A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * !Y)	0.00023	0.00024	0.00026
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	-0.00025	-0.00023	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(!A0 * !A1 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

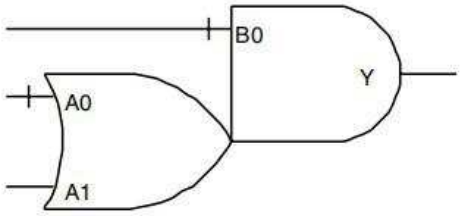
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7L	(!A0 * !A1 * !Y)	0.00036	0.00036	0.00036
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !Y)	-0.00006	-0.00006	-0.00005

OA21X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X8H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X8H7L	0.00168	0.00175	0.00183	0.32885

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X8H7L	0.00000	5.12556	7.68759

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7L	A0->Y (RR)	0.03643	0.17020	0.49151
	A1->Y (RR)	0.03387	0.16561	0.48452
	B0->Y (RR)	0.03360	0.16909	0.49609

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7L	A0->Y (FF)	0.05300	0.17120	0.45037
	A1->Y (FF)	0.04975	0.17017	0.45441
	B0->Y (FF)	0.02723	0.13851	0.40590

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7L	A0	0.00221	0.00272	0.00520
	A0	0.00007	0.00007	0.00008
	A0	-0.00008	-0.00008	0.00000
	A0	0.00461	0.00516	0.00764
	A1	0.00224	0.00280	0.00555
	A1	-0.00002	-0.00002	-0.00000
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00425	0.00481	0.00755
	B0	0.00226	0.00307	0.00689
	B0	0.00007	0.00007	0.00007
	B0	0.00000	0.00006	0.00010
	B0	0.00402	0.00481	0.00846

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7L	A0	0.00506	0.00561	0.00876
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00008	0.00008	0.00008
	A0	0.00262	0.00316	0.00632
	A1	0.00452	0.00529	0.00937
	A1	0.00001	0.00002	0.00002
	A1	0.00008	0.00008	0.00008
	A1	0.00254	0.00331	0.00741
	B0	0.00431	0.00523	0.00973
	B0	0.00001	0.00002	0.00002
	B0	-0.00006	-0.00006	0.00000
	B0	0.00244	0.00339	0.00788

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(A1 * B0 * Y)	-0.00030	-0.00027	-0.00022
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00056	0.00059	0.00063
	(A1 * !B0 * !Y)	-0.00030	-0.00028	-0.00024
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00056	0.00056	0.00057
	(!A1 * !B0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00053	0.00054	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00055	-0.00055	-0.00054
	(A1 * !B0 * !Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B0 * !Y)	0.00037	0.00039	0.00043
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	-0.00050	-0.00047	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00069	0.00069	0.00069
	(A0 * !B0 * !Y)	-0.00036	-0.00033	-0.00029
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !Y)	-0.00042	-0.00042	-0.00041
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00046	0.00047	0.00047

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00005
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00068	-0.00067	-0.00066
	(A0 * !B0 * !Y)	0.00036	0.00036	0.00036
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * !B0 * !Y)	-0.00050	-0.00049	-0.00048
	(!A0 * !B0 * !Y)	0.00043	0.00044	0.00048
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	-0.00043	-0.00041	-0.00038

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(!A0 * !A1 * !Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00004	0.00005
	(!A0 * !A1 * !Y)	0.00015	0.00015	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7L	(!A0 * !A1 * !Y)	0.00056	0.00056	0.00057
	(!A0 * !A1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00004	-0.00004	-0.00002
	(!A0 * !A1 * !Y)	-0.00015	-0.00014	-0.00014

OA221X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P5H7L	0.00079	0.00076	0.00073	0.00071	0.00081	0.04520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P5H7L	0.00000	1.14943	1.75845

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7L	A0->Y (RR)	0.06569	0.19863	0.52264
	A1->Y (RR)	0.06825	0.20241	0.52820
	B0->Y (RR)	0.06049	0.19645	0.52699
	B1->Y (RR)	0.06273	0.20035	0.53313
	C0->Y (RR)	0.05618	0.19396	0.53058

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7L	A0->Y (FF)	0.07052	0.19339	0.48745
	A1->Y (FF)	0.07240	0.19253	0.47995
	B0->Y (FF)	0.06116	0.18026	0.46608
	B1->Y (FF)	0.06303	0.17964	0.45978
	C0->Y (FF)	0.03521	0.14358	0.40778

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7L	A0	0.00035	0.00047	0.00094
	A0	0.00006	0.00006	0.00006
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00181	0.00191	0.00235
	A1	0.00035	0.00045	0.00087
	A1	0.00008	0.00009	0.00009
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00193	0.00202	0.00241
	B0	0.00037	0.00051	0.00106
	B0	0.00006	0.00006	0.00006
	B0	-0.00005	-0.00004	-0.00002
	B0	0.00149	0.00161	0.00214
	B1	0.00036	0.00049	0.00099
	B1	0.00009	0.00009	0.00009
	B1	-0.00005	-0.00004	-0.00002
	B1	0.00157	0.00169	0.00217
	C0	0.00036	0.00059	0.00145
	C0	0.00009	0.00009	0.00009
	C0	-0.00000	0.00000	0.00002
	C0	0.00139	0.00159	0.00234

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7L	A0	0.00203	0.00221	0.00298
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00010	0.00010	0.00010
	A0	0.00062	0.00079	0.00157
	A1	0.00215	0.00228	0.00286
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00010	0.00010	0.00011
	A1	0.00060	0.00073	0.00132
	B0	0.00170	0.00188	0.00267
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00002	0.00004	0.00006
	B0	0.00059	0.00077	0.00156
	B1	0.00181	0.00195	0.00256
	B1	-0.00006	-0.00006	-0.00004
	B1	0.00004	0.00005	0.00007
	B1	0.00060	0.00074	0.00135
	C0	0.00152	0.00176	0.00271
	C0	-0.00003	-0.00003	-0.00003
	C0	-0.00000	0.00000	0.00003
	C0	0.00046	0.00072	0.00171

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00008
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B0 * C0 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7L	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7L	(A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P7H7L	0.00079	0.00077	0.00073	0.00070	0.00081	0.05134

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P7H7L	0.00000	1.17808	1.83024

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7L	A0->Y (RR)	0.06527	0.19900	0.52439
	A1->Y (RR)	0.06792	0.20292	0.52969
	B0->Y (RR)	0.06008	0.19692	0.52896
	B1->Y (RR)	0.06232	0.20082	0.53501
	C0->Y (RR)	0.05582	0.19448	0.53244

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7L	A0->Y (FF)	0.07021	0.19340	0.48685
	A1->Y (FF)	0.07224	0.19263	0.47933
	B0->Y (FF)	0.06089	0.18029	0.46573
	B1->Y (FF)	0.06276	0.17965	0.45926
	C0->Y (FF)	0.03474	0.14320	0.40684

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7L	A0	0.00039	0.00051	0.00099
	A0	0.00006	0.00006	0.00007
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00184	0.00195	0.00240
	A1	0.00038	0.00049	0.00092
	A1	0.00009	0.00009	0.00009
	A1	-0.00010	-0.00010	-0.00008
	A1	0.00197	0.00206	0.00248
	B0	0.00040	0.00054	0.00112
	B0	0.00006	0.00006	0.00006
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00152	0.00165	0.00220
	B1	0.00039	0.00052	0.00104
	B1	0.00009	0.00009	0.00009
	B1	-0.00005	-0.00004	-0.00003
	B1	0.00161	0.00173	0.00223
	C0	0.00039	0.00062	0.00151
	C0	0.00009	0.00009	0.00009
	C0	0.00000	0.00000	0.00003
	C0	0.00143	0.00162	0.00240

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7L	A0	0.00206	0.00224	0.00305
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00010	0.00010	0.00010
	A0	0.00065	0.00083	0.00164
	A1	0.00218	0.00231	0.00292
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00010	0.00010	0.00010
	A1	0.00062	0.00075	0.00137
	B0	0.00173	0.00192	0.00274
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00004	0.00004	0.00007
	B0	0.00062	0.00081	0.00163
	B1	0.00184	0.00198	0.00262
	B1	-0.00006	-0.00006	-0.00004
	B1	0.00004	0.00004	0.00005
	B1	0.00063	0.00077	0.00141
	C0	0.00155	0.00179	0.00277
	C0	-0.00003	-0.00003	-0.00003
	C0	-0.00000	-0.00000	0.00002
	C0	0.00048	0.00075	0.00176

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7L	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7L	(A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1H7L	0.00079	0.00077	0.00073	0.00071	0.00081	0.06114

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1H7L	0.00000	1.22695	1.95063

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7L	A0->Y (RR)	0.06447	0.19945	0.52685
	A1->Y (RR)	0.06707	0.20333	0.53219
	B0->Y (RR)	0.05928	0.19748	0.53152
	B1->Y (RR)	0.06149	0.20136	0.53790
	C0->Y (RR)	0.05498	0.19510	0.53532

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7L	A0->Y (FF)	0.06973	0.19500	0.49185
	A1->Y (FF)	0.07176	0.19417	0.48412
	B0->Y (FF)	0.06048	0.18194	0.47077
	B1->Y (FF)	0.06233	0.18126	0.46446
	C0->Y (FF)	0.03409	0.14434	0.41144

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7L	A0	0.00042	0.00054	0.00106
	A0	0.00005	0.00006	0.00006
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00187	0.00198	0.00247
	A1	0.00042	0.00052	0.00099
	A1	0.00008	0.00008	0.00008
	A1	-0.00010	-0.00010	-0.00007
	A1	0.00200	0.00210	0.00254
	B0	0.00044	0.00057	0.00119
	B0	0.00005	0.00005	0.00006
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00155	0.00168	0.00227
	B1	0.00043	0.00056	0.00112
	B1	0.00008	0.00008	0.00008
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00164	0.00175	0.00230
	C0	0.00042	0.00066	0.00158
	C0	0.00008	0.00008	0.00008
	C0	0.00000	0.00001	0.00004
	C0	0.00145	0.00165	0.00248

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7L	A0	0.00210	0.00228	0.00316
	A0	-0.00003	-0.00003	-0.00000
	A0	0.00010	0.00010	0.00010
	A0	0.00069	0.00088	0.00175
	A1	0.00221	0.00235	0.00301
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00010	0.00010	0.00010
	A1	0.00065	0.00080	0.00147
	B0	0.00177	0.00196	0.00284
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00004	0.00004	0.00005
	B0	0.00066	0.00085	0.00174
	B1	0.00188	0.00202	0.00270
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00004	0.00004	0.00005
	B1	0.00067	0.00081	0.00150
	C0	0.00158	0.00183	0.00286
	C0	-0.00003	-0.00003	-0.00001
	C0	-0.00001	-0.00000	0.00002
	C0	0.00052	0.00079	0.00185

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A1 * B0 * C0 * Y)**	-0.00001	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00029	0.00030	0.00031
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7L	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7L	(A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1P4H7L	0.00079	0.00078	0.00073	0.00071	0.00081	0.06967

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1P4H7L	0.00000	1.28127	2.08528

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7L	A0->Y (RR)	0.06417	0.19996	0.52814
	A1->Y (RR)	0.06684	0.20387	0.53371
	B0->Y (RR)	0.05899	0.19809	0.53307
	B1->Y (RR)	0.06120	0.20193	0.53918
	C0->Y (RR)	0.05471	0.19570	0.53661

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7L	A0->Y (FF)	0.06954	0.19531	0.49187
	A1->Y (FF)	0.07161	0.19451	0.48413
	B0->Y (FF)	0.06027	0.18229	0.47108
	B1->Y (FF)	0.06213	0.18158	0.46458
	C0->Y (FF)	0.03363	0.14418	0.41106

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7L	A0	0.00045	0.00057	0.00113
	A0	0.00005	0.00005	0.00005
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00189	0.00200	0.00253
	A1	0.00044	0.00055	0.00106
	A1	0.00008	0.00008	0.00008
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00203	0.00212	0.00261
	B0	0.00046	0.00060	0.00126
	B0	0.00005	0.00005	0.00005
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00157	0.00170	0.00233
	B1	0.00046	0.00058	0.00119
	B1	0.00008	0.00008	0.00008
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00166	0.00178	0.00237
	C0	0.00044	0.00068	0.00165
	C0	0.00008	0.00008	0.00008
	C0	0.00000	0.00001	0.00004
	C0	0.00148	0.00168	0.00255

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7L	A0	0.00214	0.00233	0.00327
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00009	0.00010	0.00010
	A0	0.00074	0.00093	0.00187
	A1	0.00225	0.00239	0.00311
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00009	0.00010	0.00010
	A1	0.00069	0.00084	0.00157
	B0	0.00180	0.00200	0.00296
	B0	-0.00003	-0.00002	0.00000
	B0	0.00003	0.00004	0.00006
	B0	0.00071	0.00090	0.00186
	B1	0.00192	0.00206	0.00280
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00001	0.00004	0.00005
	B1	0.00072	0.00086	0.00160
	C0	0.00162	0.00187	0.00296
	C0	-0.00003	-0.00002	-0.00002
	C0	-0.00001	-0.00001	0.00001
	C0	0.00056	0.00083	0.00194

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7L	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7L	(A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X2H7L	0.00078	0.00080	0.00073	0.00071	0.00081	0.08222

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X2H7L	0.00000	1.37604	2.31455

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7L	A0->Y (RR)	0.06471	0.20162	0.53122
	A1->Y (RR)	0.06751	0.20560	0.53656
	B0->Y (RR)	0.05958	0.19999	0.53690
	B1->Y (RR)	0.06178	0.20380	0.54276
	C0->Y (RR)	0.05533	0.19759	0.54020

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7L	A0->Y (FF)	0.07003	0.19591	0.49100
	A1->Y (FF)	0.07224	0.19522	0.48307
	B0->Y (FF)	0.06084	0.18304	0.47057
	B1->Y (FF)	0.06268	0.18233	0.46355
	C0->Y (FF)	0.03358	0.14408	0.40941

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7L	A0	0.00051	0.00064	0.00126
	A0	0.00004	0.00005	0.00005
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00194	0.00206	0.00265
	A1	0.00050	0.00062	0.00119
	A1	0.00007	0.00007	0.00008
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00208	0.00219	0.00274
	B0	0.00052	0.00067	0.00139
	B0	0.00005	0.00005	0.00005
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00162	0.00176	0.00246
	B1	0.00053	0.00066	0.00133
	B1	0.00007	0.00007	0.00008
	B1	-0.00003	-0.00003	-0.00000
	B1	0.00170	0.00184	0.00250
	C0	0.00051	0.00075	0.00179
	C0	0.00007	0.00007	0.00008
	C0	0.00000	0.00001	0.00004
	C0	0.00153	0.00174	0.00269

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7L	A0	0.00220	0.00241	0.00346
	A0	-0.00002	-0.00002	0.00001
	A0	0.00009	0.00009	0.00009
	A0	0.00081	0.00102	0.00208
	A1	0.00232	0.00247	0.00328
	A1	-0.00005	-0.00005	-0.00002
	A1	0.00009	0.00009	0.00009
	A1	0.00076	0.00092	0.00174
	B0	0.00187	0.00208	0.00315
	B0	-0.00002	-0.00002	0.00001
	B0	0.00003	0.00003	0.00005
	B0	0.00078	0.00099	0.00206
	B1	0.00198	0.00214	0.00297
	B1	-0.00005	-0.00005	-0.00002
	B1	0.00002	0.00003	0.00006
	B1	0.00079	0.00095	0.00178
	C0	0.00167	0.00194	0.00312
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00062	0.00091	0.00210

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00031	0.00031	0.00032
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00031	0.00031	0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7L	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7L	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7L	(A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X3H7L	0.00090	0.00087	0.00084	0.00081	0.00092	0.12736

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X3H7L	0.00000	1.93720	3.44472

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7L	A0->Y (RR)	0.06117	0.19883	0.52925
	A1->Y (RR)	0.06384	0.20271	0.53434
	B0->Y (RR)	0.05694	0.19840	0.53588
	B1->Y (RR)	0.05925	0.20236	0.54271
	C0->Y (RR)	0.05341	0.19692	0.53994

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7L	A0->Y (FF)	0.06627	0.19394	0.49161
	A1->Y (FF)	0.06838	0.19335	0.48427
	B0->Y (FF)	0.05829	0.18260	0.47302
	B1->Y (FF)	0.06029	0.18218	0.46660
	C0->Y (FF)	0.03216	0.14509	0.41396

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7L	A0	0.00086	0.00104	0.00198
	A0	0.00006	0.00006	0.00007
	A0	-0.00012	-0.00011	-0.00009
	A0	0.00255	0.00271	0.00361
	A1	0.00086	0.00101	0.00189
	A1	0.00010	0.00010	0.00011
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00272	0.00286	0.00370
	B0	0.00088	0.00108	0.00217
	B0	0.00006	0.00006	0.00006
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00217	0.00236	0.00342
	B1	0.00087	0.00106	0.00209
	B1	0.00010	0.00010	0.00010
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00230	0.00248	0.00348
	C0	0.00085	0.00117	0.00267
	C0	0.00010	0.00010	0.00011
	C0	0.00002	0.00002	0.00006
	C0	0.00206	0.00234	0.00375

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7L	A0	0.00287	0.00317	0.00479
	A0	-0.00003	-0.00002	-0.00000
	A0	0.00011	0.00011	0.00012
	A0	0.00123	0.00153	0.00316
	A1	0.00303	0.00325	0.00449
	A1	-0.00006	-0.00006	-0.00001
	A1	0.00012	0.00012	0.00012
	A1	0.00119	0.00143	0.00268
	B0	0.00249	0.00279	0.00443
	B0	-0.00002	-0.00002	0.00002
	B0	0.00003	0.00004	0.00004
	B0	0.00122	0.00151	0.00315
	B1	0.00260	0.00286	0.00413
	B1	-0.00006	-0.00006	-0.00003
	B1	0.00003	0.00004	0.00008
	B1	0.00122	0.00144	0.00271
	C0	0.00228	0.00263	0.00437
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00002	-0.00002	0.00000
	C0	0.00108	0.00143	0.00317

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A1 * B0 * C0 * Y)**	-0.00001	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00033	0.00033	0.00034
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B0 * C0 * Y)**	-0.00011	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00031	0.00032	0.00033
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00031	0.00032	0.00033
	(A0 * !B0 * !B1 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00024	0.00025
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B0 * C0 * Y)**	0.00012	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B1 * !C0 * !Y)	0.00017	0.00018	0.00020
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00017	0.00018	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B0 * C0 * Y)**	-0.00011	-0.00011	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00029
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * B0 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00027	0.00027	0.00029
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7L	**(A0 * B0 * C0 * Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00018
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7L	(A0 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7L	(A0 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008

OA221X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X4H7L	0.00097	0.00095	0.00091	0.00088	0.00098	0.16378

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X4H7L	0.00000	2.28943	4.11935

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7L	A0->Y (RR)	0.05765	0.19487	0.52349
	A1->Y (RR)	0.06036	0.19875	0.52909
	B0->Y (RR)	0.05381	0.19479	0.53044
	B1->Y (RR)	0.05602	0.19862	0.53666
	C0->Y (RR)	0.05042	0.19346	0.53454

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7L	A0->Y (FF)	0.06474	0.19293	0.49037
	A1->Y (FF)	0.06699	0.19249	0.48325
	B0->Y (FF)	0.05702	0.18184	0.47217
	B1->Y (FF)	0.05902	0.18144	0.46622
	C0->Y (FF)	0.03099	0.14444	0.41367

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7L	A0	0.00102	0.00123	0.00241
	A0	0.00005	0.00006	0.00006
	A0	-0.00013	-0.00013	-0.00011
	A0	0.00287	0.00306	0.00418
	A1	0.00102	0.00121	0.00230
	A1	0.00011	0.00011	0.00011
	A1	-0.00013	-0.00013	-0.00009
	A1	0.00302	0.00323	0.00427
	B0	0.00104	0.00128	0.00264
	B0	0.00006	0.00006	0.00007
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00243	0.00266	0.00398
	B1	0.00104	0.00126	0.00253
	B1	0.00011	0.00011	0.00011
	B1	-0.00004	-0.00004	0.00001
	B1	0.00255	0.00280	0.00405
	C0	0.00101	0.00139	0.00320
	C0	0.00011	0.00011	0.00011
	C0	0.00001	0.00003	0.00008
	C0	0.00227	0.00264	0.00436

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7L	A0	0.00319	0.00355	0.00556
	A0	-0.00002	-0.00002	0.00003
	A0	0.00013	0.00013	0.00013
	A0	0.00141	0.00177	0.00379
	A1	0.00337	0.00364	0.00520
	A1	-0.00006	-0.00006	-0.00002
	A1	0.00013	0.00013	0.00014
	A1	0.00138	0.00165	0.00322
	B0	0.00278	0.00314	0.00517
	B0	-0.00002	-0.00002	0.00003
	B0	0.00002	0.00004	0.00005
	B0	0.00140	0.00176	0.00379
	B1	0.00296	0.00322	0.00479
	B1	-0.00006	-0.00006	-0.00002
	B1	0.00004	0.00004	0.00009
	B1	0.00140	0.00167	0.00325
	C0	0.00255	0.00296	0.00509
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00003	-0.00003	0.00000
	C0	0.00126	0.00167	0.00380

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * !B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B0 * C0 * Y)**	-0.00013	-0.00012	-0.00010
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00036
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00026	0.00027	0.00028
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B0 * C0 * Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00022
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B0 * C0 * Y)**	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00029	0.00030	0.00031
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00026	0.00026
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7L	**(A0 * B0 * C0 * Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00020
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7L	(A0 * !B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7L	(A0 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008

OA222X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P5H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P5H7L	0.00076	0.00080	0.00075	0.00074	0.00069	0.00082	0.04515

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P5H7L	0.00000	1.41291	2.41269

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7L	A0->Y (RR)	0.07565	0.21225	0.54170
	A1->Y (RR)	0.07314	0.20856	0.53695
	B0->Y (RR)	0.07070	0.21104	0.54870
	B1->Y (RR)	0.06763	0.20658	0.54173
	C0->Y (RR)	0.05983	0.19933	0.53458
	C1->Y (RR)	0.05842	0.19616	0.52850

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7L	A0->Y (FF)	0.07855	0.20222	0.49530
	A1->Y (FF)	0.07674	0.20337	0.50414
	B0->Y (FF)	0.06994	0.19031	0.47658
	B1->Y (FF)	0.06758	0.19074	0.48405
	C0->Y (FF)	0.05744	0.17342	0.45337
	C1->Y (FF)	0.05681	0.17512	0.46090

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7L	A0	0.00036	0.00046	0.00088
	A0	0.00012	0.00012	0.00012
	A0	-0.00013	-0.00013	-0.00011
	A0	0.00222	0.00230	0.00265
	A1	0.00036	0.00048	0.00095
	A1	0.00009	0.00009	0.00009
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00210	0.00219	0.00259
	B0	0.00037	0.00049	0.00100
	B0	0.00012	0.00012	0.00012
	B0	-0.00008	-0.00007	-0.00005
	B0	0.00189	0.00199	0.00244
	B1	0.00037	0.00051	0.00107
	B1	0.00009	0.00009	0.00009
	B1	-0.00008	-0.00007	-0.00005
	B1	0.00168	0.00181	0.00234
	C0	0.00037	0.00056	0.00127
	C0	0.00012	0.00012	0.00012
	C0	-0.00002	-0.00001	0.00001
	C0	0.00160	0.00177	0.00242
	C1	0.00038	0.00058	0.00133
	C1	0.00009	0.00009	0.00010
	C1	-0.00002	-0.00001	0.00000
	C1	0.00149	0.00165	0.00233

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7L	A0	0.00241	0.00254	0.00314
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00014	0.00014	0.00014
	A0	0.00060	0.00073	0.00133
	A1	0.00231	0.00248	0.00326
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00014	0.00014	0.00014
	A1	0.00062	0.00079	0.00157
	B0	0.00210	0.00223	0.00284
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00007	0.00008	0.00010
	B0	0.00058	0.00072	0.00133
	B1	0.00198	0.00216	0.00295
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00007	0.00008	0.00009
	B1	0.00062	0.00080	0.00159
	C0	0.00170	0.00185	0.00253
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00000	0.00002	0.00028
	C0	0.00024	0.00059	0.00129
	C1	0.00161	0.00181	0.00266
	C1	-0.00003	-0.00003	-0.00003
	C1	0.00000	0.00002	0.00009
	C1	0.00050	0.00070	0.00155

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00028
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00012
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P7H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P7H7L	0.00077	0.00080	0.00075	0.00074	0.00069	0.00082	0.05129

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P7H7L	0.00000	1.45001	2.42447

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7L	A0->Y (RR)	0.07518	0.21260	0.54336
	A1->Y (RR)	0.07269	0.20895	0.53849
	B0->Y (RR)	0.07017	0.21142	0.55059
	B1->Y (RR)	0.06716	0.20700	0.54347
	C0->Y (RR)	0.05931	0.19977	0.53626
	C1->Y (RR)	0.05792	0.19664	0.53092

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7L	A0->Y (FF)	0.07819	0.20222	0.49479
	A1->Y (FF)	0.07632	0.20335	0.50344
	B0->Y (FF)	0.06949	0.19021	0.47626
	B1->Y (FF)	0.06710	0.19068	0.48345
	C0->Y (FF)	0.05707	0.17337	0.45281
	C1->Y (FF)	0.05645	0.17511	0.46055

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7L	A0	0.00039	0.00049	0.00093
	A0	0.00012	0.00012	0.00012
	A0	-0.00013	-0.00013	-0.00010
	A0	0.00225	0.00233	0.00271
	A1	0.00039	0.00051	0.00100
	A1	0.00009	0.00009	0.00009
	A1	-0.00013	-0.00013	-0.00010
	A1	0.00213	0.00222	0.00264
	B0	0.00040	0.00052	0.00106
	B0	0.00012	0.00012	0.00012
	B0	-0.00007	-0.00007	-0.00004
	B0	0.00192	0.00202	0.00249
	B1	0.00040	0.00054	0.00113
	B1	0.00009	0.00009	0.00009
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00171	0.00184	0.00240
	C0	0.00040	0.00059	0.00133
	C0	0.00011	0.00012	0.00012
	C0	-0.00001	-0.00001	0.00001
	C0	0.00163	0.00180	0.00248
	C1	0.00041	0.00061	0.00139
	C1	0.00009	0.00009	0.00009
	C1	-0.00001	-0.00001	0.00000
	C1	0.00152	0.00168	0.00239

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7L	A0	0.00245	0.00258	0.00321
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00014	0.00014	0.00014
	A0	0.00062	0.00076	0.00139
	A1	0.00234	0.00252	0.00334
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00014	0.00014	0.00014
	A1	0.00065	0.00083	0.00165
	B0	0.00213	0.00227	0.00290
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00007	0.00008	0.00010
	B0	0.00061	0.00075	0.00139
	B1	0.00201	0.00220	0.00303
	B1	-0.00003	-0.00003	-0.00001
	B1	0.00006	0.00007	0.00008
	B1	0.00065	0.00083	0.00167
	C0	0.00173	0.00188	0.00259
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00001	0.00002	0.00030
	C0	0.00048	0.00064	0.00135
	C1	0.00164	0.00184	0.00274
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00001	0.00001	0.00004
	C1	0.00053	0.00073	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00028	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00028	0.00029	0.00030
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00028	0.00029	0.00030
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00010
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00006
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00010
	(A1 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1H7L	0.00067	0.00075	0.00072	0.00071	0.00076	0.00090	0.06100

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1H7L	0.00000	1.51287	2.44537

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7L	A0->Y (RR)	0.07102	0.21003	0.54251
	A1->Y (RR)	0.06908	0.20658	0.53727
	B0->Y (RR)	0.06733	0.20950	0.55094
	B1->Y (RR)	0.06415	0.20483	0.54282
	C0->Y (RR)	0.05937	0.20098	0.53952
	C1->Y (RR)	0.05881	0.19853	0.53463

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7L	A0->Y (FF)	0.07431	0.20093	0.49683
	A1->Y (FF)	0.07284	0.20237	0.50587
	B0->Y (FF)	0.06668	0.18921	0.47759
	B1->Y (FF)	0.06364	0.18912	0.48465
	C0->Y (FF)	0.05749	0.17624	0.45949
	C1->Y (FF)	0.05760	0.17850	0.46825

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7L	A0	0.00040	0.00051	0.00100
	A0	0.00011	0.00011	0.00013
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00226	0.00234	0.00277
	A1	0.00040	0.00051	0.00106
	A1	0.00008	0.00008	0.00009
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00210	0.00221	0.00267
	B0	0.00040	0.00053	0.00111
	B0	0.00011	0.00011	0.00011
	B0	-0.00007	-0.00007	-0.00004
	B0	0.00189	0.00200	0.00253
	B1	0.00041	0.00055	0.00120
	B1	0.00008	0.00008	0.00008
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00178	0.00189	0.00246
	C0	0.00040	0.00059	0.00136
	C0	0.00011	0.00011	0.00011
	C0	-0.00001	-0.00001	0.00002
	C0	0.00160	0.00177	0.00249
	C1	0.00039	0.00059	0.00141
	C1	0.00008	0.00008	0.00008
	C1	-0.00001	-0.00001	0.00002
	C1	0.00153	0.00170	0.00245

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7L	A0	0.00242	0.00256	0.00326
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00013	0.00013	0.00013
	A0	0.00061	0.00076	0.00146
	A1	0.00232	0.00251	0.00342
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00013	0.00013	0.00013
	A1	0.00066	0.00085	0.00176
	B0	0.00211	0.00225	0.00295
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00005	0.00007	0.00010
	B0	0.00062	0.00076	0.00147
	B1	0.00197	0.00216	0.00308
	B1	-0.00003	-0.00003	-0.00000
	B1	0.00005	0.00007	0.00010
	B1	0.00062	0.00081	0.00173
	C0	0.00180	0.00196	0.00273
	C0	-0.00006	-0.00005	-0.00004
	C0	0.00000	0.00001	0.00003
	C0	0.00056	0.00078	0.00317
	C1	0.00173	0.00194	0.00289
	C1	-0.00003	-0.00002	0.00016
	C1	0.00000	0.00004	0.00157
	C1	0.00060	0.00080	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00010	-0.00009
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00011	0.00012
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00026	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	0.00010	0.00010	0.00011
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00017
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00008
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00011
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00027	-0.00026	-0.00025
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1P4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1P4H7L	0.00079	0.00080	0.00075	0.00074	0.00069	0.00082	0.07005

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1P4H7L	0.00000	1.58290	2.46826

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7L	A0->Y (RR)	0.07497	0.21511	0.55060
	A1->Y (RR)	0.07235	0.21135	0.54550
	B0->Y (RR)	0.06986	0.21401	0.55801
	B1->Y (RR)	0.06680	0.20965	0.55251
	C0->Y (RR)	0.05900	0.20256	0.54470
	C1->Y (RR)	0.05764	0.19940	0.53865

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7L	A0->Y (FF)	0.07830	0.20534	0.50231
	A1->Y (FF)	0.07632	0.20638	0.51119
	B0->Y (FF)	0.06951	0.19331	0.48375
	B1->Y (FF)	0.06714	0.19382	0.49154
	C0->Y (FF)	0.05722	0.17658	0.46042
	C1->Y (FF)	0.05663	0.17838	0.46860

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7L	A0	0.00049	0.00059	0.00111
	A0	0.00011	0.00011	0.00012
	A0	-0.00013	-0.00013	-0.00010
	A0	0.00235	0.00244	0.00288
	A1	0.00049	0.00061	0.00117
	A1	0.00008	0.00008	0.00008
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00222	0.00231	0.00279
	B0	0.00050	0.00063	0.00124
	B0	0.00011	0.00011	0.00011
	B0	-0.00007	-0.00006	-0.00003
	B0	0.00201	0.00212	0.00267
	B1	0.00050	0.00064	0.00130
	B1	0.00008	0.00008	0.00008
	B1	-0.00007	-0.00006	-0.00004
	B1	0.00181	0.00194	0.00258
	C0	0.00049	0.00069	0.00151
	C0	0.00011	0.00011	0.00011
	C0	-0.00001	-0.00001	0.00002
	C0	0.00172	0.00189	0.00267
	C1	0.00050	0.00071	0.00157
	C1	0.00008	0.00008	0.00008
	C1	-0.00001	-0.00001	0.00002
	C1	0.00161	0.00178	0.00258

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7L	A0	0.00254	0.00268	0.00342
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00013	0.00013	0.00013
	A0	0.00072	0.00087	0.00160
	A1	0.00243	0.00262	0.00358
	A1	-0.00002	-0.00002	-0.00000
	A1	0.00013	0.00013	0.00013
	A1	0.00076	0.00095	0.00191
	B0	0.00222	0.00237	0.00311
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00005	0.00007	0.00009
	B0	0.00072	0.00086	0.00161
	B1	0.00210	0.00230	0.00327
	B1	-0.00002	-0.00002	0.00000
	B1	0.00006	0.00007	0.00009
	B1	0.00075	0.00095	0.00192
	C0	0.00182	0.00198	0.00279
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00000	0.00001	0.00002
	C0	0.00059	0.00075	0.00156
	C1	0.00173	0.00194	0.00296
	C1	-0.00002	-0.00002	-0.00001
	C1	0.00001	0.00001	0.00003
	C1	0.00063	0.00084	0.00186

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00010
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00006
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00010
	(A1 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00012
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X2H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X2H7L	0.00082	0.00080	0.00070	0.00075	0.00069	0.00082	0.08218

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X2H7L	0.00000	1.70399	2.51042

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7L	A0->Y (RR)	0.07669	0.21727	0.55275
	A1->Y (RR)	0.07390	0.21344	0.54750
	B0->Y (RR)	0.07092	0.21591	0.56065
	B1->Y (RR)	0.06842	0.21207	0.55401
	C0->Y (RR)	0.06060	0.20508	0.54749
	C1->Y (RR)	0.05920	0.20200	0.54203

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7L	A0->Y (FF)	0.08003	0.20664	0.50076
	A1->Y (FF)	0.07787	0.20768	0.51007
	B0->Y (FF)	0.07053	0.19440	0.48278
	B1->Y (FF)	0.06881	0.19545	0.49084
	C0->Y (FF)	0.05892	0.17841	0.46011
	C1->Y (FF)	0.05842	0.18032	0.46849

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7L	A0	0.00058	0.00069	0.00127
	A0	0.00010	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00009
	A0	0.00246	0.00256	0.00307
	A1	0.00059	0.00071	0.00133
	A1	0.00007	0.00008	0.00008
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00232	0.00243	0.00297
	B0	0.00060	0.00073	0.00142
	B0	0.00010	0.00010	0.00010
	B0	-0.00006	-0.00006	-0.00002
	B0	0.00210	0.00222	0.00285
	B1	0.00061	0.00075	0.00148
	B1	0.00007	0.00007	0.00008
	B1	-0.00006	-0.00006	-0.00003
	B1	0.00191	0.00205	0.00276
	C0	0.00059	0.00080	0.00169
	C0	0.00010	0.00010	0.00011
	C0	-0.00000	-0.00000	0.00002
	C0	0.00183	0.00201	0.00287
	C1	0.00060	0.00081	0.00175
	C1	0.00007	0.00007	0.00008
	C1	-0.00000	-0.00000	0.00003
	C1	0.00170	0.00189	0.00277

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7L	A0	0.00263	0.00280	0.00362
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00012	0.00013	0.00013
	A0	0.00079	0.00095	0.00178
	A1	0.00252	0.00274	0.00381
	A1	-0.00002	-0.00002	0.00001
	A1	0.00012	0.00013	0.00013
	A1	0.00084	0.00105	0.00213
	B0	0.00231	0.00247	0.00331
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00003	0.00006	0.00010
	B0	0.00082	0.00098	0.00182
	B1	0.00221	0.00242	0.00351
	B1	-0.00002	-0.00002	0.00002
	B1	0.00006	0.00006	0.00009
	B1	0.00086	0.00106	0.00215
	C0	0.00193	0.00210	0.00300
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00000	0.00000	0.00002
	C0	0.00069	0.00086	0.00176
	C1	0.00184	0.00206	0.00320
	C1	-0.00002	-0.00002	-0.00000
	C1	0.00000	0.00000	0.00001
	C1	0.00075	0.00097	0.00210

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00010	0.00010
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00006
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00025	0.00026	0.00026
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00010
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00017	-0.00015
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00012
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X3H7L	0.00090	0.00091	0.00082	0.00084	0.00079	0.00094	0.12752

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X3H7L	0.00000	2.40857	3.44550

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7L	A0->Y (RR)	0.07069	0.21193	0.54809
	A1->Y (RR)	0.06773	0.20792	0.54270
	B0->Y (RR)	0.06612	0.21202	0.55757
	B1->Y (RR)	0.06335	0.20787	0.55123
	C0->Y (RR)	0.05707	0.20254	0.54556
	C1->Y (RR)	0.05546	0.19924	0.53994

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7L	A0->Y (FF)	0.07331	0.20217	0.49920
	A1->Y (FF)	0.07093	0.20267	0.50709
	B0->Y (FF)	0.06547	0.19152	0.48277
	B1->Y (FF)	0.06334	0.19205	0.49009
	C0->Y (FF)	0.05523	0.17727	0.46260
	C1->Y (FF)	0.05433	0.17869	0.47002

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7L	A0	0.00086	0.00102	0.00190
	A0	0.00013	0.00014	0.00015
	A0	-0.00015	-0.00015	-0.00012
	A0	0.00306	0.00321	0.00401
	A1	0.00087	0.00105	0.00200
	A1	0.00010	0.00010	0.00010
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00290	0.00306	0.00390
	B0	0.00088	0.00107	0.00212
	B0	0.00014	0.00014	0.00014
	B0	-0.00008	-0.00008	-0.00002
	B0	0.00267	0.00284	0.00381
	B1	0.00089	0.00109	0.00220
	B1	0.00010	0.00010	0.00010
	B1	-0.00008	-0.00008	-0.00003
	B1	0.00247	0.00268	0.00368
	C0	0.00089	0.00115	0.00248
	C0	0.00014	0.00014	0.00014
	C0	0.00000	0.00000	0.00006
	C0	0.00230	0.00257	0.00386
	C1	0.00090	0.00116	0.00255
	C1	0.00006	0.00006	0.00010
	C1	0.00000	0.00000	0.00004
	C1	0.00215	0.00243	0.00376

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7L	A0	0.00336	0.00359	0.00487
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00016	0.00016	0.00017
	A0	0.00119	0.00143	0.00271
	A1	0.00320	0.00351	0.00517
	A1	-0.00003	-0.00002	0.00001
	A1	0.00016	0.00016	0.00017
	A1	0.00122	0.00153	0.00319
	B0	0.00299	0.00322	0.00451
	B0	-0.00006	-0.00006	-0.00002
	B0	0.00004	0.00008	0.00012
	B0	0.00120	0.00143	0.00272
	B1	0.00283	0.00314	0.00482
	B1	-0.00003	-0.00002	0.00003
	B1	0.00007	0.00008	0.00011
	B1	0.00124	0.00155	0.00322
	C0	0.00253	0.00277	0.00414
	C0	-0.00006	-0.00006	-0.00003
	C0	-0.00000	0.00000	0.00008
	C0	0.00108	0.00132	0.00269
	C1	0.00241	0.00273	0.00445
	C1	-0.00002	-0.00002	-0.00001
	C1	-0.00000	0.00000	0.00002
	C1	0.00112	0.00143	0.00316

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00034
	(A1 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	0.00012	0.00013	0.00013
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !Y)	0.00017	0.00018	0.00018
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00018	0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00011	-0.00010
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00029	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00031
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00029	0.00030	0.00031
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00029	0.00030	0.00031
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00011	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	0.00012	0.00012	0.00013
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00019
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00019
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00018
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00031	0.00032
	(A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00031	0.00032
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00031	0.00032
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C1 * Y)**	0.00013	0.00013	0.00013
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00012	0.00012	0.00013
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C0 * Y)**	-0.00001	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OA222X4H7L	0.00094	0.00097	0.00089	0.00091	0.00085	0.00102	0.16377

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA222X4H7L	0.00000	2.85118	4.12021

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7L	A0->Y (RR)	0.06647	0.20723	0.54148
	A1->Y (RR)	0.06380	0.20350	0.53654
	B0->Y (RR)	0.06235	0.20765	0.55103
	B1->Y (RR)	0.05965	0.20357	0.54389
	C0->Y (RR)	0.05379	0.19866	0.53912
	C1->Y (RR)	0.05224	0.19539	0.53331

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7L	A0->Y (FF)	0.07136	0.20096	0.49792
	A1->Y (FF)	0.06915	0.20161	0.50609
	B0->Y (FF)	0.06378	0.19041	0.48155
	B1->Y (FF)	0.06153	0.19087	0.48879
	C0->Y (FF)	0.05371	0.17630	0.46160
	C1->Y (FF)	0.05267	0.17763	0.46868

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7L	A0	0.00100	0.00120	0.00230
	A0	0.00015	0.00015	0.00016
	A0	-0.00018	-0.00018	-0.00013
	A0	0.00340	0.00357	0.00458
	A1	0.00101	0.00122	0.00242
	A1	0.00011	0.00011	0.00011
	A1	-0.00018	-0.00017	-0.00013
	A1	0.00322	0.00340	0.00447
	B0	0.00103	0.00125	0.00257
	B0	0.00015	0.00015	0.00016
	B0	-0.00013	-0.00009	-0.00004
	B0	0.00296	0.00317	0.00439
	B1	0.00103	0.00127	0.00266
	B1	0.00011	0.00011	0.00011
	B1	-0.00009	-0.00009	-0.00004
	B1	0.00267	0.00290	0.00425
	C0	0.00104	0.00134	0.00300
	C0	0.00015	0.00015	0.00016
	C0	0.00001	0.00001	0.00001
	C0	0.00257	0.00286	0.00446
	C1	0.00104	0.00136	0.00308
	C1	0.00009	0.00011	0.00011
	C1	0.00000	0.00001	0.00006
	C1	0.00237	0.00271	0.00436

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7L	A0	0.00375	0.00404	0.00564
	A0	-0.00007	-0.00006	-0.00001
	A0	0.00019	0.00019	0.00019
	A0	0.00139	0.00169	0.00331
	A1	0.00357	0.00395	0.00603
	A1	-0.00002	-0.00002	0.00003
	A1	0.00019	0.00019	0.00019
	A1	0.00143	0.00181	0.00389
	B0	0.00334	0.00362	0.00525
	B0	-0.00006	-0.00006	-0.00000
	B0	0.00004	0.00009	0.00013
	B0	0.00139	0.00168	0.00331
	B1	0.00316	0.00354	0.00563
	B1	-0.00002	-0.00002	0.00003
	B1	0.00008	0.00009	0.00013
	B1	0.00144	0.00181	0.00391
	C0	0.00284	0.00312	0.00483
	C0	-0.00007	-0.00006	-0.00006
	C0	-0.00001	-0.00001	0.00002
	C0	0.00127	0.00156	0.00327
	C1	0.00269	0.00307	0.00523
	C1	-0.00002	-0.00002	-0.00001
	C1	-0.00001	-0.00001	0.00001
	C1	0.00131	0.00169	0.00385

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	-0.00013	-0.00012	-0.00010
	(A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00033	0.00033	0.00034
	(A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00035
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00033	0.00033	0.00034
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00027
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00025	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00035	0.00036	0.00036
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00035	0.00036	0.00036
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00035	0.00036	0.00036
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00036	0.00036
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00022	0.00024	0.00024
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A0 * B1 * C1 * Y)**	-0.00001	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00001	0.00002	0.00003
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00031	0.00032	0.00033
	(A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00031	0.00032	0.00033
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00011	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	0.00014	0.00014	0.00015
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00021
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00026	-0.00025	-0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * B1 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00021
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !A1 * B1 * C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00021
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00034
	(A1 * B0 * !B1 * C1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C1 * Y)**	0.00014	0.00014	0.00014
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7L	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00036	0.00036	0.00037
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00036	0.00036	0.00037
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00028	-0.00027	-0.00026
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00036	0.00036	0.00037
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00036	0.00036	0.00037
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00004	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00028	-0.00027	-0.00026
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00028	-0.00027	-0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

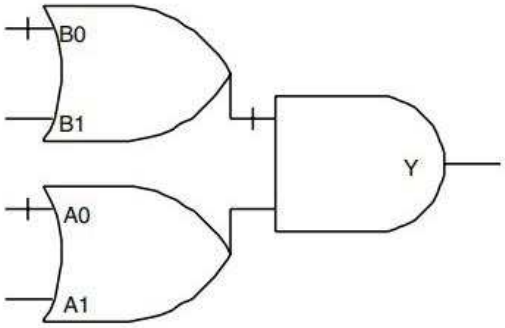
OA222X4H7L	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(A1 * !B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00004
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P5H7L	0.00068	0.00074	0.00075	0.00079	0.04516

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P5H7L	0.00000	1.50858	2.40825

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7L	A0->Y (RR)	0.04677	0.17835	0.49749
	A1->Y (RR)	0.04525	0.17524	0.49254
	B0->Y (RR)	0.04194	0.17207	0.48866
	B1->Y (RR)	0.04007	0.16855	0.48422

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7L	A0->Y (FF)	0.06143	0.17775	0.45922
	A1->Y (FF)	0.05992	0.17882	0.46644
	B0->Y (FF)	0.05084	0.16176	0.43663
	B1->Y (FF)	0.04881	0.16235	0.44236

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7L	A0	0.00040	0.00054	0.00107
	A0	0.00007	0.00007	0.00007
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00159	0.00174	0.00227
	A1	0.00040	0.00056	0.00116
	A1	0.00004	0.00004	0.00006
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00145	0.00161	0.00222
	B0	0.00039	0.00060	0.00134
	B0	0.00007	0.00007	0.00007
	B0	-0.00002	-0.00002	0.00000
	B0	0.00133	0.00153	0.00223
	B1	0.00040	0.00063	0.00141
	B1	0.00001	0.00002	0.00005
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00121	0.00142	0.00217

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7L	A0	0.00174	0.00189	0.00252
	A0	-0.00005	-0.00004	-0.00003
	A0	0.00008	0.00008	0.00008
	A0	0.00049	0.00064	0.00128
	A1	0.00163	0.00184	0.00266
	A1	-0.00002	-0.00002	-0.00000
	A1	0.00008	0.00008	0.00008
	A1	0.00054	0.00074	0.00156
	B0	0.00136	0.00154	0.00227
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	0.00039	0.00058	0.00131
	B1	0.00126	0.00148	0.00238
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00001	0.00002	0.00003
	B1	0.00043	0.00066	0.00157

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * !A1 * B1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

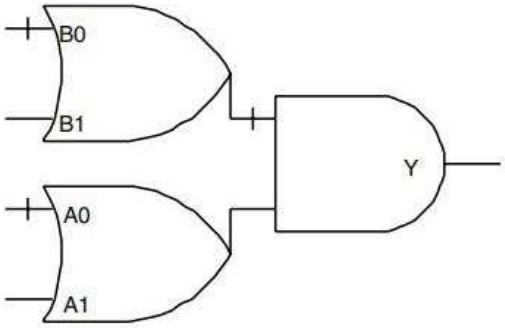
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P7H7L	0.00068	0.00074	0.00076	0.00078	0.05133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P7H7L	0.00000	1.55412	2.42003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7L	A0->Y (RR)	0.04600	0.17828	0.49885
	A1->Y (RR)	0.04449	0.17518	0.49417
	B0->Y (RR)	0.04114	0.17208	0.48996
	B1->Y (RR)	0.03926	0.16848	0.48550

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7L	A0->Y (FF)	0.06091	0.17745	0.45838
	A1->Y (FF)	0.05937	0.17851	0.46508
	B0->Y (FF)	0.05043	0.16149	0.43545
	B1->Y (FF)	0.04822	0.16201	0.44177

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7L	A0	0.00042	0.00057	0.00112
	A0	0.00007	0.00007	0.00007
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00162	0.00176	0.00232
	A1	0.00042	0.00059	0.00121
	A1	0.00004	0.00004	0.00004
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00147	0.00164	0.00226
	B0	0.00041	0.00063	0.00139
	B0	0.00007	0.00007	0.00007
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00136	0.00156	0.00228
	B1	0.00043	0.00066	0.00149
	B1	0.00004	0.00004	0.00004
	B1	-0.00001	-0.00001	0.00000
	B1	0.00123	0.00144	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7L	A0	0.00176	0.00191	0.00258
	A0	-0.00005	-0.00004	-0.00002
	A0	0.00008	0.00008	0.00008
	A0	0.00052	0.00067	0.00134
	A1	0.00166	0.00186	0.00272
	A1	-0.00002	-0.00001	0.00000
	A1	0.00008	0.00008	0.00008
	A1	0.00056	0.00077	0.00163
	B0	0.00138	0.00156	0.00232
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00001	0.00001	0.00002
	B0	0.00041	0.00060	0.00136
	B1	0.00128	0.00150	0.00244
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00001	0.00001	0.00002
	B1	0.00046	0.00069	0.00163

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00026	0.00027	0.00028
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00010
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * !A1 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * B1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

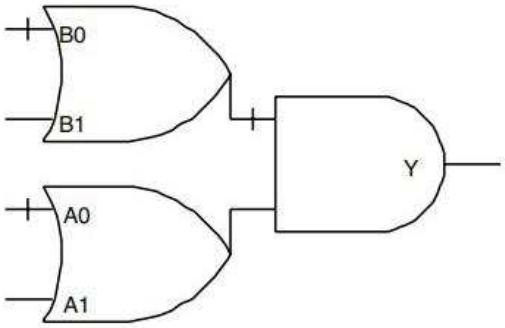
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1H7L	0.00068	0.00074	0.00077	0.00079	0.06115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1H7L	0.00000	1.63096	2.44092

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7L	A0->Y (RR)	0.04526	0.17869	0.50145
	A1->Y (RR)	0.04375	0.17561	0.49682
	B0->Y (RR)	0.04051	0.17271	0.49377
	B1->Y (RR)	0.03855	0.16909	0.48737

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7L	A0->Y (FF)	0.06077	0.17935	0.46382
	A1->Y (FF)	0.05922	0.18045	0.47074
	B0->Y (FF)	0.05043	0.16355	0.44123
	B1->Y (FF)	0.04825	0.16408	0.44729

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7L	A0	0.00046	0.00061	0.00119
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00165	0.00180	0.00238
	A1	0.00046	0.00062	0.00128
	A1	0.00004	0.00004	0.00004
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00151	0.00167	0.00233
	B0	0.00045	0.00067	0.00147
	B0	0.00007	0.00007	0.00007
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00140	0.00160	0.00236
	B1	0.00046	0.00069	0.00156
	B1	0.00004	0.00004	0.00004
	B1	-0.00001	-0.00001	0.00001
	B1	0.00126	0.00148	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7L	**A0**	0.00180	0.00196	0.00267
	A0	-0.00004	-0.00004	-0.00001
	A0	0.00007	0.00007	0.00008
	A0	0.00056	0.00072	0.00143
	A1	0.00170	0.00191	0.00282
	A1	-0.00001	-0.00001	0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00061	0.00081	0.00173
	B0	0.00143	0.00161	0.00240
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00001	0.00001	0.00002
	B0	0.00047	0.00065	0.00144
	B1	0.00132	0.00155	0.00254
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00001	0.00001	0.00001
	B1	0.00051	0.00075	0.00173

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00026	0.00026	0.00028
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

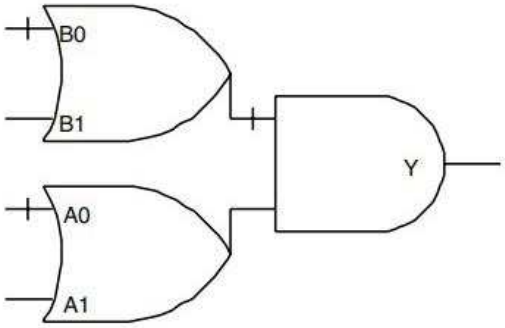
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1P4H7L	0.00068	0.00074	0.00078	0.00078	0.06963

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1P4H7L	0.00000	1.71672	2.46382

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7L	A0->Y (RR)	0.04503	0.17906	0.50250
	A1->Y (RR)	0.04352	0.17599	0.49760
	B0->Y (RR)	0.04031	0.17319	0.49447
	B1->Y (RR)	0.03824	0.16955	0.48863

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7L	A0->Y (FF)	0.06083	0.17981	0.46388
	A1->Y (FF)	0.05930	0.18097	0.47119
	B0->Y (FF)	0.05067	0.16417	0.44155
	B1->Y (FF)	0.04830	0.16462	0.44767

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7L	A0	0.00049	0.00065	0.00127
	A0	0.00006	0.00006	0.00007
	A0	-0.00007	-0.00006	-0.00004
	A0	0.00168	0.00183	0.00245
	A1	0.00049	0.00066	0.00135
	A1	0.00003	0.00003	0.00004
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00154	0.00171	0.00240
	B0	0.00048	0.00071	0.00154
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00001	0.00003
	B0	0.00142	0.00164	0.00244
	B1	0.00050	0.00073	0.00164
	B1	0.00003	0.00003	0.00004
	B1	-0.00001	-0.00001	0.00001
	B1	0.00129	0.00151	0.00238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7L	A0	0.00184	0.00200	0.00276
	A0	-0.00004	-0.00003	-0.00002
	A0	0.00007	0.00007	0.00007
	A0	0.00061	0.00077	0.00153
	A1	0.00174	0.00195	0.00293
	A1	-0.00001	-0.00001	0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00065	0.00087	0.00185
	B0	0.00147	0.00165	0.00249
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00000	0.00001	0.00002
	B0	0.00051	0.00069	0.00153
	B1	0.00136	0.00159	0.00264
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00000	0.00001	0.00001
	B1	0.00055	0.00080	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00026	0.00026	0.00028
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00010
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

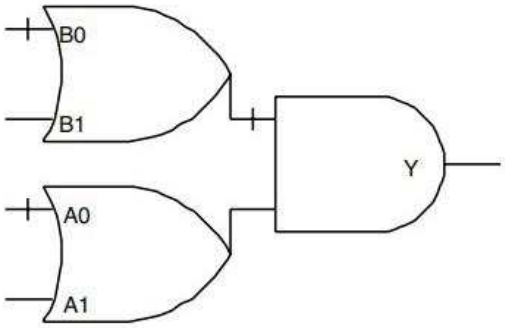
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X2H7L	0.00068	0.00074	0.00081	0.00077	0.08227

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X2H7L	0.00000	1.86411	2.50598

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7L	A0->Y (RR)	0.04534	0.18056	0.50624
	A1->Y (RR)	0.04387	0.17753	0.50097
	B0->Y (RR)	0.04086	0.17507	0.49838
	B1->Y (RR)	0.03845	0.17119	0.49249

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7L	A0->Y (FF)	0.06157	0.18079	0.46347
	A1->Y (FF)	0.06006	0.18199	0.47090
	B0->Y (FF)	0.05185	0.16553	0.44127
	B1->Y (FF)	0.04905	0.16566	0.44737

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7L	A0	0.00056	0.00072	0.00140
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00174	0.00190	0.00258
	A1	0.00056	0.00073	0.00148
	A1	0.00003	0.00003	0.00003
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00160	0.00178	0.00252
	B0	0.00055	0.00077	0.00168
	B0	0.00006	0.00006	0.00006
	B0	-0.00000	-0.00000	0.00001
	B0	0.00151	0.00172	0.00260
	B1	0.00056	0.00081	0.00179
	B1	0.00003	0.00003	0.00003
	B1	-0.00000	-0.00000	0.00000
	B1	0.00136	0.00158	0.00252

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7L	**A0**	0.00191	0.00208	0.00292
	A0	-0.00003	-0.00003	-0.00001
	A0	0.00006	0.00007	0.00007
	A0	0.00068	0.00085	0.00169
	A1	0.00181	0.00203	0.00312
	A1	-0.00000	-0.00000	0.00002
	A1	0.00006	0.00006	0.00007
	A1	0.00072	0.00095	0.00203
	B0	0.00155	0.00173	0.00265
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00000	0.00000	0.00001
	B0	0.00057	0.00076	0.00168
	B1	0.00142	0.00167	0.00282
	B1	-0.00000	-0.00000	0.00000
	B1	0.00000	0.00000	0.00001
	B1	0.00064	0.00088	0.00203

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00012	0.00012
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00016
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

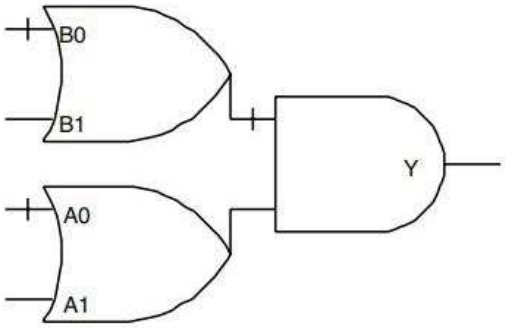
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X3H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X3H7L	0.00078	0.00085	0.00088	0.00090	0.12761

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X3H7L	0.00000	2.67688	3.18981

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7L	A0->Y (RR)	0.04297	0.17951	0.50700
	A1->Y (RR)	0.04136	0.17640	0.50174
	B0->Y (RR)	0.03877	0.17483	0.50063
	B1->Y (RR)	0.03680	0.17131	0.49453

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7L	A0->Y (FF)	0.05867	0.18056	0.46709
	A1->Y (FF)	0.05694	0.18135	0.47321
	B0->Y (FF)	0.04983	0.16681	0.44699
	B1->Y (FF)	0.04756	0.16713	0.45273

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7L	A0	0.00084	0.00106	0.00206
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00232	0.00251	0.00344
	A1	0.00084	0.00108	0.00217
	A1	0.00004	0.00004	0.00004
	A1	-0.00008	-0.00008	-0.00004
	A1	0.00205	0.00229	0.00338
	B0	0.00084	0.00112	0.00244
	B0	0.00008	0.00008	0.00008
	B0	-0.00000	0.00000	0.00000
	B0	0.00194	0.00222	0.00351
	B1	0.00084	0.00116	0.00258
	B1	0.00004	0.00004	0.00004
	B1	0.00000	0.00000	0.00001
	B1	0.00178	0.00207	0.00344

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7L	**A0**	0.00250	0.00278	0.00405
	A0	-0.00004	-0.00004	-0.00000
	A0	0.00008	0.00008	0.00009
	A0	0.00108	0.00131	0.00259
	A1	0.00240	0.00271	0.00436
	A1	-0.00000	0.00000	0.00004
	A1	0.00008	0.00008	0.00008
	A1	0.00112	0.00143	0.00308
	B0	0.00211	0.00236	0.00372
	B0	-0.00004	-0.00004	-0.00003
	B0	-0.00000	0.00000	0.00002
	B0	0.00098	0.00124	0.00260
	B1	0.00195	0.00229	0.00401
	B1	-0.00000	0.00000	0.00001
	B1	-0.00000	0.00000	0.00001
	B1	0.00102	0.00136	0.00308

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B1 * Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B1 * Y)	0.00012	0.00012	0.00013
	(A1 * B1 * Y)	0.00000	0.00001	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00017
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00016	0.00017	0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B1 * Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00032	0.00033	0.00034
	(A0 * !A1 * B1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * !A1 * B1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * !A1 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

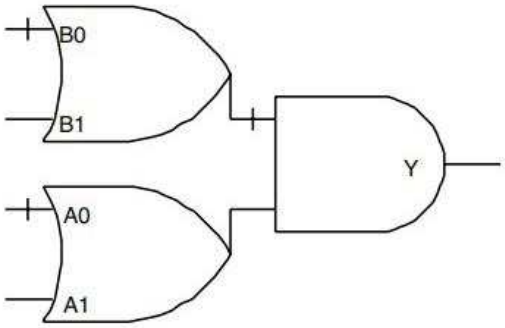
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X4H7L	0.00084	0.00092	0.00097	0.00097	0.16424

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X4H7L	0.00000	3.18416	3.84466

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7L	A0->Y (RR)	0.04055	0.17674	0.50266
	A1->Y (RR)	0.03895	0.17367	0.49811
	B0->Y (RR)	0.03682	0.17267	0.49678
	B1->Y (RR)	0.03484	0.16908	0.49091

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7L	A0->Y (FF)	0.05748	0.17999	0.46686
	A1->Y (FF)	0.05568	0.18072	0.47330
	B0->Y (FF)	0.04920	0.16693	0.44761
	B1->Y (FF)	0.04670	0.16711	0.45367

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7L	A0	0.00099	0.00124	0.00248
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00009	-0.00005
	A0	0.00246	0.00276	0.00399
	A1	0.00100	0.00127	0.00261
	A1	0.00004	0.00004	0.00004
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00231	0.00259	0.00393
	B0	0.00099	0.00132	0.00293
	B0	0.00008	0.00008	0.00008
	B0	0.00001	0.00001	0.00001
	B0	0.00221	0.00253	0.00410
	B1	0.00100	0.00137	0.00308
	B1	0.00001	0.00004	0.00004
	B1	0.00000	0.00001	0.00001
	B1	0.00201	0.00236	0.00403

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7L	**A0**	0.00285	0.00312	0.00470
	A0	-0.00004	-0.00004	0.00001
	A0	0.00009	0.00009	0.00009
	A0	0.00124	0.00152	0.00310
	A1	0.00267	0.00305	0.00508
	A1	0.00001	0.00001	0.00006
	A1	0.00009	0.00009	0.00009
	A1	0.00127	0.00166	0.00369
	B0	0.00237	0.00268	0.00435
	B0	-0.00004	-0.00004	-0.00004
	B0	-0.00001	-0.00001	0.00000
	B0	0.00114	0.00144	0.00312
	B1	0.00220	0.00260	0.00471
	B1	0.00000	0.00001	0.00001
	B1	-0.00001	-0.00001	0.00001
	B1	0.00119	0.00159	0.00370

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !B1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00031	0.00031	0.00033
	(A1 * !B0 * !B1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B1 * Y)	0.00014	0.00014	0.00015
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * Y)	0.00014	0.00014	0.00015
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00015	0.00016	0.00018
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00028	-0.00026	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A0 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00018	0.00019	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00035	0.00036	0.00037
	(A0 * !A1 * B1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00035	0.00036	0.00037
	(!A0 * !A1 * B1 * !Y)	-0.00028	-0.00027	-0.00026
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00007	0.00008	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B1 * Y)	0.00014	0.00014	0.00014
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * !A1 * B1 * Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !A1 * B1 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !Y)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

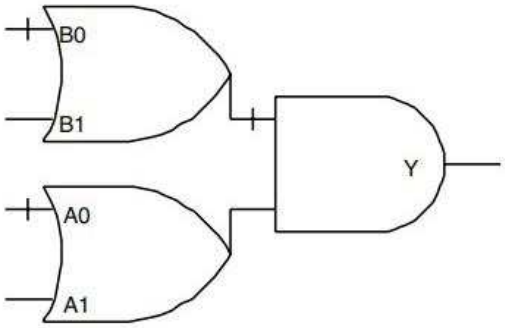
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X6H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X6H7L	0.00095	0.00103	0.00110	0.00106	0.24661

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X6H7L	0.00000	4.41050	5.58245

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7L	A0->Y (RR)	0.04319	0.18187	0.51216
	A1->Y (RR)	0.04146	0.17872	0.50712
	B0->Y (RR)	0.03989	0.17896	0.50800
	B1->Y (RR)	0.03766	0.17530	0.50247

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7L	A0->Y (FF)	0.06117	0.18637	0.47690
	A1->Y (FF)	0.05909	0.18706	0.48396
	B0->Y (FF)	0.05372	0.17475	0.45990
	B1->Y (FF)	0.05098	0.17489	0.46571

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7L	A0	0.00160	0.00194	0.00373
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00342	0.00372	0.00542
	A1	0.00161	0.00196	0.00389
	A1	0.00003	0.00003	0.00003
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00305	0.00341	0.00533
	B0	0.00161	0.00204	0.00438
	B0	0.00008	0.00009	0.00009
	B0	0.00002	0.00002	0.00003
	B0	0.00297	0.00339	0.00568
	B1	0.00162	0.00208	0.00455
	B1	0.00003	0.00003	0.00003
	B1	0.00002	0.00003	0.00006
	B1	0.00273	0.00318	0.00558

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7L	A0	0.00372	0.00411	0.00646
	A0	-0.00003	-0.00003	-0.00001
	A0	0.00009	0.00009	0.00010
	A0	0.00192	0.00231	0.00467
	A1	0.00350	0.00403	0.00704
	A1	0.00000	0.00003	0.00009
	A1	0.00009	0.00009	0.00009
	A1	0.00195	0.00248	0.00550
	B0	0.00322	0.00362	0.00607
	B0	-0.00003	-0.00003	0.00002
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00184	0.00224	0.00469
	B1	0.00299	0.00352	0.00662
	B1	0.00002	0.00003	0.00003
	B1	-0.00002	-0.00002	0.00000
	B1	0.00188	0.00242	0.00551

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00033	0.00034	0.00035
	(A1 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00031	0.00032	0.00033

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B1 * Y)	0.00017	0.00017	0.00018
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * !Y)	0.00018	0.00020	0.00022
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A0 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00002	0.00003	0.00004
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00022	0.00023	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00039	0.00040	0.00041
	(A0 * !A1 * B1 * Y)	-0.00015	-0.00014	-0.00011
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00039	0.00040	0.00041
	(!A0 * !A1 * B1 * !Y)	-0.00032	-0.00031	-0.00030
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00034	-0.00033	-0.00033
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B1 * Y)	0.00017	0.00017	0.00017
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A1 * B1 * Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * B1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * B0 * Y)	-0.00001	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !A1 * B0 * !Y)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * !A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00004	-0.00004

OA31X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P5H7L	0.00082	0.00076	0.00078	0.00077	0.04521

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P5H7L	0.00000	1.33158	2.06305

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7L	A0->Y (RR)	0.04749	0.17796	0.49523
	A1->Y (RR)	0.04496	0.17395	0.48671
	A2->Y (RR)	0.04264	0.17016	0.48251
	B0->Y (RR)	0.04287	0.17604	0.50229

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7L	A0->Y (FF)	0.08494	0.19816	0.47696
	A1->Y (FF)	0.08077	0.20185	0.49556
	A2->Y (FF)	0.07600	0.19852	0.49548
	B0->Y (FF)	0.03349	0.14256	0.41074

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7L	A0	0.00035	0.00047	0.00094
	A0	0.00007	0.00007	0.00007
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00161	0.00173	0.00220
	A1	0.00037	0.00049	0.00095
	A1	0.00004	0.00004	0.00005
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00147	0.00160	0.00206
	A2	0.00037	0.00052	0.00104
	A2	0.00001	0.00002	0.00002
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00136	0.00151	0.00204
	B0	0.00036	0.00062	0.00155
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00000	0.00000
	B0	0.00133	0.00156	0.00238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7L	A0	0.00174	0.00186	0.00242
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00006	0.00006	0.00006
	A0	0.00047	0.00060	0.00116
	A1	0.00160	0.00173	0.00232
	A1	-0.00005	-0.00004	-0.00003
	A1	0.00006	0.00006	0.00006
	A1	0.00049	0.00063	0.00122
	A2	0.00148	0.00166	0.00242
	A2	-0.00002	-0.00002	-0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00050	0.00068	0.00144
	B0	0.00147	0.00174	0.00275
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00000	0.00000	0.00001
	B0	0.00047	0.00075	0.00180

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00028	0.00029	0.00029
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00010
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00023	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(!A0 * !A1 * !A2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7L	(!A0 * !A1 * !A2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P7H7L	0.00081	0.00074	0.00078	0.00077	0.05136

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P7H7L	0.00000	1.36962	2.07483

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7L	A0->Y (RR)	0.04658	0.17774	0.49590
	A1->Y (RR)	0.04415	0.17389	0.48817
	A2->Y (RR)	0.04182	0.17010	0.48390
	B0->Y (RR)	0.04202	0.17594	0.50378

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7L	A0->Y (FF)	0.08437	0.19806	0.47650
	A1->Y (FF)	0.08046	0.20194	0.49520
	A2->Y (FF)	0.07570	0.19862	0.49527
	B0->Y (FF)	0.03273	0.14186	0.40949

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7L	A0	0.00037	0.00049	0.00097
	A0	0.00007	0.00007	0.00007
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00162	0.00175	0.00223
	A1	0.00038	0.00051	0.00099
	A1	0.00003	0.00004	0.00004
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00149	0.00161	0.00210
	A2	0.00039	0.00053	0.00108
	A2	0.00001	0.00001	0.00001
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00138	0.00152	0.00207
	B0	0.00037	0.00063	0.00158
	B0	0.00007	0.00007	0.00007
	B0	0.00000	0.00000	0.00003
	B0	0.00135	0.00157	0.00242

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7L	A0	0.00176	0.00189	0.00247
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00006	0.00006	0.00006
	A0	0.00048	0.00062	0.00121
	A1	0.00163	0.00176	0.00238
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00006	0.00006	0.00006
	A1	0.00051	0.00065	0.00128
	A2	0.00150	0.00169	0.00248
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00052	0.00070	0.00151
	B0	0.00149	0.00176	0.00281
	B0	-0.00001	-0.00001	0.00020
	B0	-0.00000	-0.00000	0.00000
	B0	0.00049	0.00077	0.00185

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(!A0 * !A1 * !A2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7L	(!A0 * !A1 * !A2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1H7L	0.00081	0.00074	0.00078	0.00077	0.06107

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1H7L	0.00000	1.43402	2.09572

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7L	A0->Y (RR)	0.04574	0.17783	0.49748
	A1->Y (RR)	0.04336	0.17399	0.48985
	A2->Y (RR)	0.04104	0.17021	0.48506
	B0->Y (RR)	0.04124	0.17608	0.50517

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7L	A0->Y (FF)	0.08439	0.20005	0.48153
	A1->Y (FF)	0.08060	0.20405	0.50062
	A2->Y (FF)	0.07581	0.20078	0.50089
	B0->Y (FF)	0.03226	0.14291	0.41326

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7L	A0	0.00040	0.00053	0.00105
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00166	0.00179	0.00230
	A1	0.00042	0.00055	0.00106
	A1	0.00004	0.00004	0.00004
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00150	0.00164	0.00216
	A2	0.00043	0.00057	0.00115
	A2	0.00001	0.00001	0.00001
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00141	0.00155	0.00213
	B0	0.00041	0.00067	0.00166
	B0	0.00006	0.00007	0.00007
	B0	0.00000	0.00001	0.00002
	B0	0.00137	0.00160	0.00249

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7L	**A0**	0.00179	0.00193	0.00256
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00005	0.00005	0.00005
	A0	0.00049	0.00066	0.00130
	A1	0.00166	0.00180	0.00248
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00005	0.00005	0.00005
	A1	0.00055	0.00071	0.00139
	A2	0.00154	0.00173	0.00259
	A2	-0.00001	-0.00001	-0.00000
	A2	0.00005	0.00005	0.00005
	A2	0.00055	0.00075	0.00162
	B0	0.00152	0.00180	0.00289
	B0	-0.00001	-0.00001	0.00001
	B0	-0.00001	-0.00001	0.00001
	B0	0.00054	0.00082	0.00194

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * B0 * Y)	0.00009	0.00009	0.00010
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(!A0 * !A1 * !A2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7L	(!A0 * !A1 * !A2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1P4H7L	0.00082	0.00074	0.00078	0.00077	0.06972

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1P4H7L	0.00000	1.50581	2.11862

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7L	A0->Y (RR)	0.04557	0.17859	0.50002
	A1->Y (RR)	0.04317	0.17477	0.49246
	A2->Y (RR)	0.04086	0.17097	0.48592
	B0->Y (RR)	0.04107	0.17686	0.50751

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7L	A0->Y (FF)	0.08499	0.20134	0.48272
	A1->Y (FF)	0.08114	0.20539	0.50233
	A2->Y (FF)	0.07642	0.20212	0.50228
	B0->Y (FF)	0.03201	0.14310	0.41358

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7L	A0	0.00044	0.00057	0.00112
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00168	0.00183	0.00238
	A1	0.00046	0.00059	0.00114
	A1	0.00004	0.00004	0.00004
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00155	0.00168	0.00223
	A2	0.00046	0.00060	0.00122
	A2	0.00000	0.00001	0.00001
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00143	0.00159	0.00220
	B0	0.00044	0.00071	0.00173
	B0	0.00006	0.00006	0.00006
	B0	0.00001	0.00001	0.00004
	B0	0.00139	0.00164	0.00256

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7L	A0	0.00183	0.00197	0.00266
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00055	0.00071	0.00140
	A1	0.00170	0.00185	0.00258
	A1	-0.00004	-0.00003	-0.00002
	A1	0.00005	0.00005	0.00005
	A1	0.00059	0.00076	0.00150
	A2	0.00158	0.00178	0.00271
	A2	-0.00001	-0.00001	-0.00000
	A2	0.00005	0.00005	0.00005
	A2	0.00060	0.00080	0.00174
	B0	0.00156	0.00184	0.00299
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00058	0.00087	0.00204

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00030	0.00030	0.00031
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(!A0 * !A1 * !A2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7L	(!A0 * !A1 * !A2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X2H7L	0.00081	0.00074	0.00078	0.00077	0.09021

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X2H7L	0.00000	1.93381	2.62721

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7L	A0->Y (RR)	0.05071	0.18708	0.51368
	A1->Y (RR)	0.04809	0.18326	0.50664
	A2->Y (RR)	0.04605	0.17993	0.50143
	B0->Y (RR)	0.04623	0.18545	0.52028

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7L	A0->Y (FF)	0.09606	0.21682	0.50469
	A1->Y (FF)	0.09186	0.22097	0.52615
	A2->Y (FF)	0.08783	0.21839	0.52751
	B0->Y (FF)	0.03607	0.15127	0.42802

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7L	A0	0.00074	0.00089	0.00157
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00004	-0.00004
	A0	0.00196	0.00211	0.00279
	A1	0.00076	0.00090	0.00160
	A1	0.00003	0.00003	0.00003
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00182	0.00197	0.00266
	A2	0.00076	0.00092	0.00167
	A2	0.00000	0.00000	0.00001
	A2	-0.00005	-0.00004	-0.00003
	A2	0.00172	0.00188	0.00263
	B0	0.00073	0.00102	0.00218
	B0	0.00006	0.00006	0.00006
	B0	0.00000	0.00001	0.00003
	B0	0.00168	0.00193	0.00302

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7L	A0	0.00217	0.00235	0.00326
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00004	0.00004	0.00005
	A0	0.00091	0.00112	0.00204
	A1	0.00203	0.00222	0.00322
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00004	0.00004	0.00004
	A1	0.00096	0.00116	0.00216
	A2	0.00192	0.00217	0.00341
	A2	-0.00000	-0.00000	0.00001
	A2	0.00004	0.00004	0.00005
	A2	0.00096	0.00121	0.00246
	B0	0.00188	0.00217	0.00353
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00092	0.00122	0.00258

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00019	0.00020	0.00020
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00028	0.00029	0.00029
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(!A0 * !A1 * !A2 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7L	(!A0 * !A1 * !A2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X3H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X3H7L	0.00092	0.00085	0.00089	0.00088	0.12770

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X3H7L	0.00000	2.32454	3.18981

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7L	A0->Y (RR)	0.04395	0.17963	0.50480
	A1->Y (RR)	0.04171	0.17603	0.49774
	A2->Y (RR)	0.03951	0.17239	0.49187
	B0->Y (RR)	0.04002	0.17841	0.51159

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7L	A0->Y (FF)	0.08431	0.20363	0.48675
	A1->Y (FF)	0.08079	0.20785	0.50695
	A2->Y (FF)	0.07622	0.20462	0.50682
	B0->Y (FF)	0.03099	0.14427	0.41663

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7L	A0	0.00089	0.00107	0.00198
	A0	0.00008	0.00008	0.00008
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00233	0.00252	0.00342
	A1	0.00090	0.00110	0.00201
	A1	0.00004	0.00004	0.00004
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00215	0.00235	0.00326
	A2	0.00092	0.00112	0.00212
	A2	-0.00000	0.00000	0.00000
	A2	-0.00006	-0.00006	-0.00004
	A2	0.00201	0.00223	0.00323
	B0	0.00087	0.00125	0.00277
	B0	0.00008	0.00008	0.00008
	B0	0.00000	0.00002	0.00006
	B0	0.00196	0.00231	0.00373

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7L	**A0**	0.00256	0.00279	0.00397
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	0.00104	0.00133	0.00252
	A1	0.00239	0.00263	0.00393
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00006	0.00006	0.00006
	A1	0.00110	0.00137	0.00268
	A2	0.00223	0.00254	0.00417
	A2	-0.00000	0.00000	0.00000
	A2	0.00006	0.00006	0.00006
	A2	0.00112	0.00144	0.00308
	B0	0.00221	0.00259	0.00438
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	0.00000
	B0	0.00108	0.00148	0.00327

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A1 * A2 * B0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00031	0.00032	0.00032
	(!A1 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A1 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !A2 * B0 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * B0 * Y)	0.00011	0.00012	0.00012
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00026	0.00026	0.00027
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00026	0.00027	0.00029
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A2 * B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00020	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7L	(!A0 * !A1 * !A2 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X4H7L	0.00099	0.00092	0.00097	0.00095	0.16413

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X4H7L	0.00000	2.75876	3.84466

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7L	A0->Y (RR)	0.04142	0.17664	0.50028
	A1->Y (RR)	0.03934	0.17313	0.49291
	A2->Y (RR)	0.03720	0.16955	0.48723
	B0->Y (RR)	0.03768	0.17547	0.50643

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7L	A0->Y (FF)	0.08326	0.20320	0.48644
	A1->Y (FF)	0.07990	0.20757	0.50679
	A2->Y (FF)	0.07530	0.20424	0.50619
	B0->Y (FF)	0.02987	0.14340	0.41573

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7L	A0	0.00105	0.00127	0.00239
	A0	0.00008	0.00008	0.00008
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00262	0.00284	0.00396
	A1	0.00107	0.00129	0.00242
	A1	0.00004	0.00004	0.00004
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00243	0.00265	0.00378
	A2	0.00108	0.00132	0.00256
	A2	-0.00001	-0.00001	0.00000
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00227	0.00251	0.00375
	B0	0.00103	0.00146	0.00330
	B0	0.00008	0.00008	0.00008
	B0	0.00000	0.00003	0.00007
	B0	0.00223	0.00260	0.00433

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7L	A0	0.00288	0.00315	0.00463
	A0	-0.00008	-0.00008	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00123	0.00156	0.00305
	A1	0.00268	0.00298	0.00461
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00006	0.00006	0.00006
	A1	0.00128	0.00161	0.00326
	A2	0.00250	0.00288	0.00491
	A2	0.00000	0.00001	0.00003
	A2	0.00006	0.00006	0.00006
	A2	0.00130	0.00169	0.00374
	B0	0.00247	0.00291	0.00510
	B0	0.00000	0.00001	0.00001
	B0	-0.00003	-0.00003	0.00000
	B0	0.00127	0.00172	0.00390

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A1 * A2 * B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00019
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00033	0.00034	0.00034
	(!A1 * A2 * B0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A1 * A2 * B0 * Y)	0.00013	0.00013	0.00014
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * B0 * Y)	0.00013	0.00014	0.00014
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00025	0.00026
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00028	0.00028	0.00029
	(A0 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * B0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * Y)	0.00028	0.00029	0.00031
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00017	-0.00015
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00022	0.00023
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(!A0 * !A1 * !A2 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

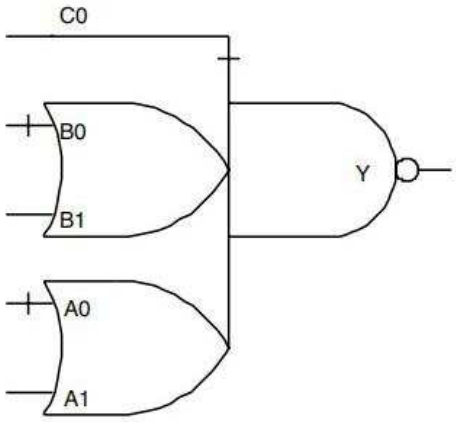
Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7L	(!A0 * !A1 * !A2 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OAI211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P5H7L	0.00068	0.00076	0.00072	0.00077	0.02218

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P5H7L	0.00000	0.52472	1.16079

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7L	A0->Y (FR)	0.04200	0.19155	0.62971
	A1->Y (FR)	0.04116	0.19252	0.64109
	B0->Y (FR)	0.01906	0.11684	0.45229
	C0->Y (FR)	0.01792	0.11436	0.45024

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7L	A0->Y (RF)	0.03276	0.14072	0.46868
	A1->Y (RF)	0.03143	0.13780	0.46559
	B0->Y (RF)	0.02947	0.14348	0.50724
	C0->Y (RF)	0.02759	0.14136	0.51070

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	A0	0.00117	0.00126	0.00176
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	-0.00003	0.00005	0.00054
	A1	0.00109	0.00120	0.00183
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00009	0.00009	0.00009
	A1	0.00002	0.00013	0.00075
	B0	0.00089	0.00103	0.00180
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00000	0.00005	0.00005
	B0	-0.00006	0.00010	0.00090
	C0	0.00080	0.00095	0.00181
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00001	0.00002	0.00006
	C0	-0.00004	0.00013	0.00103

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	A0	-0.00007	-0.00001	0.00039
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00114	0.00122	0.00162
	A1	-0.00008	-0.00000	0.00046
	A1	0.00004	0.00005	0.00005
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00102	0.00109	0.00156
	B0	-0.00007	0.00003	0.00069
	B0	0.00007	0.00007	0.00007
	B0	-0.00005	-0.00005	0.00000
	B0	0.00085	0.00095	0.00154
	C0	-0.00008	0.00006	0.00085
	C0	0.00007	0.00007	0.00007
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00075	0.00086	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * !C0 * Y)	0.00010	0.00011	0.00012
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00025	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00016
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * !C0 * Y)	-0.00015	-0.00014	-0.00014
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * !C0 * Y)	0.00015	0.00015	0.00016
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	-0.00018	-0.00018	-0.00016
	(A0 * !A1 * !C0 * Y)	0.00015	0.00015	0.00017
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

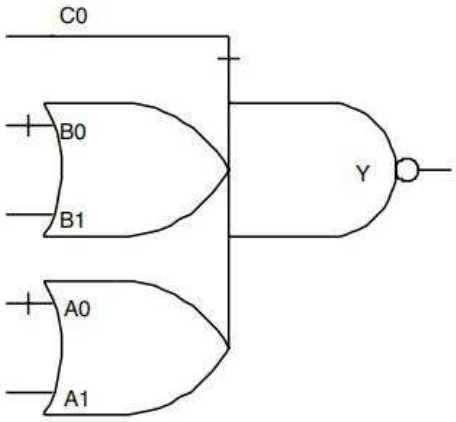
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7L	(A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006

OAI211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P7H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P7H7L	0.00072	0.00080	0.00079	0.00087	0.02521

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P7H7L	0.00000	0.56111	1.25161

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7L	A0->Y (FR)	0.03898	0.18944	0.63026
	A1->Y (FR)	0.03795	0.19010	0.64217
	B0->Y (FR)	0.01842	0.11650	0.45414
	C0->Y (FR)	0.01729	0.11406	0.45266

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7L	A0->Y (RF)	0.03033	0.13758	0.46551
	A1->Y (RF)	0.02877	0.13440	0.46180
	B0->Y (RF)	0.02821	0.14178	0.50602
	C0->Y (RF)	0.02637	0.13966	0.50870

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	A0	0.00125	0.00135	0.00191
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00010	0.00010	0.00010
	A0	-0.00005	0.00004	0.00060
	A1	0.00115	0.00128	0.00198
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00010	0.00010	0.00010
	A1	0.00000	0.00013	0.00083
	B0	0.00099	0.00115	0.00201
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00005	0.00005	0.00006
	B0	-0.00005	0.00012	0.00101
	C0	0.00090	0.00107	0.00202
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00001	0.00002	0.00002
	C0	-0.00006	0.00014	0.00113

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	A0	-0.00007	-0.00001	0.00045
	A0	0.00008	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00124	0.00132	0.00178
	A1	-0.00008	0.00000	0.00053
	A1	0.00005	0.00005	0.00005
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00109	0.00117	0.00171
	B0	-0.00009	0.00003	0.00076
	B0	0.00009	0.00009	0.00009
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00095	0.00105	0.00171
	C0	-0.00009	0.00006	0.00094
	C0	0.00008	0.00009	0.00009
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00085	0.00098	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * !C0 * Y)	0.00011	0.00012	0.00013
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00016
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * !C0 * Y)	0.00017	0.00018	0.00019
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * !C0 * Y)	0.00017	0.00018	0.00019
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * !B0 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

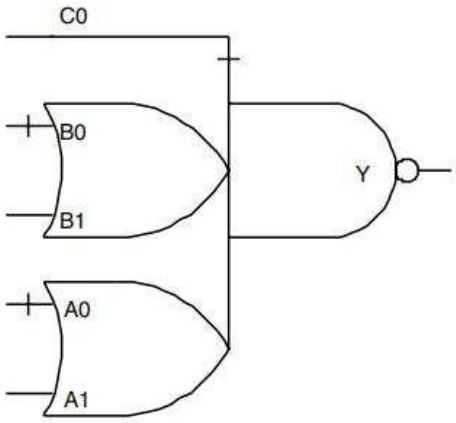
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7L	(A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00007

OAI211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1H7L	0.00079	0.00087	0.00088	0.00094	0.03003

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1H7L	0.00000	0.62145	1.39839

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7L	A0->Y (FR)	0.03569	0.18718	0.63420
	A1->Y (FR)	0.03443	0.18744	0.64441
	B0->Y (FR)	0.01691	0.11516	0.45603
	C0->Y (FR)	0.01568	0.11259	0.45427

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7L	A0->Y (RF)	0.02805	0.13633	0.46895
	A1->Y (RF)	0.02629	0.13283	0.46502
	B0->Y (RF)	0.02614	0.14087	0.51040
	C0->Y (RF)	0.02410	0.13848	0.51333

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7L	A0	0.00137	0.00149	0.00215
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00012	0.00012	0.00012
	A0	-0.00008	0.00002	0.00067
	A1	0.00123	0.00140	0.00223
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00012	0.00012	0.00012
	A1	-0.00003	0.00012	0.00094
	B0	0.00109	0.00129	0.00228
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00005	0.00006	0.00008
	B0	-0.00010	0.00012	0.00115
	C0	0.00098	0.00118	0.00229
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00001	0.00002	0.00003
	C0	-0.00008	0.00014	0.00131

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7L	A0	-0.00009	-0.00001	0.00052
	A0	0.00010	0.00010	0.00010
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00139	0.00147	0.00201
	A1	-0.00010	0.00000	0.00063
	A1	0.00006	0.00006	0.00007
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00122	0.00131	0.00195
	B0	-0.00010	0.00003	0.00089
	B0	0.00010	0.00010	0.00010
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00108	0.00119	0.00196
	C0	-0.00011	0.00007	0.00110
	C0	0.00010	0.00010	0.00010
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00093	0.00109	0.00203

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00029	0.00030	0.00031
	(A1 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !C0 * Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * Y)	0.00016	0.00017	0.00018
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * C0 * Y)	0.00016	0.00017	0.00018
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * !C0 * Y)	0.00020	0.00021	0.00022
	(A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A1 * !C0 * Y)	0.00020	0.00021	0.00022
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C0 falling (conditional):

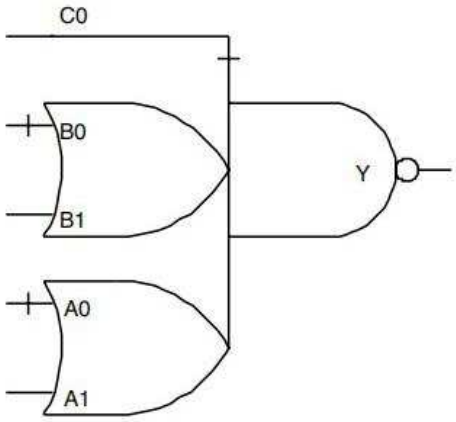
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7L	(A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1P4H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1P4H7L	0.00086	0.00094	0.00094	0.00100	0.03428

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1P4H7L	0.00000	0.68800	1.55942

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7L	A0->Y (FR)	0.03368	0.18576	0.63565
	A1->Y (FR)	0.03222	0.18584	0.64526
	B0->Y (FR)	0.01593	0.11423	0.45681
	C0->Y (FR)	0.01467	0.11160	0.45445

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7L	A0->Y (RF)	0.02627	0.13365	0.46539
	A1->Y (RF)	0.02385	0.12988	0.46120
	B0->Y (RF)	0.02438	0.13834	0.50811
	C0->Y (RF)	0.02230	0.13596	0.51153

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	A0	0.00149	0.00163	0.00237
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	0.00001	0.00075
	A1	0.00135	0.00152	0.00246
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00014	0.00014	0.00014
	A1	-0.00006	0.00011	0.00105
	B0	0.00118	0.00141	0.00254
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00006	0.00007	0.00009
	B0	-0.00011	0.00012	0.00130
	C0	0.00106	0.00129	0.00256
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00001	0.00002	0.00004
	C0	-0.00011	0.00015	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	A0	-0.00010	-0.00002	0.00059
	A0	0.00012	0.00012	0.00012
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00152	0.00162	0.00224
	A1	-0.00011	0.00000	0.00073
	A1	0.00007	0.00007	0.00008
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00133	0.00144	0.00218
	B0	-0.00012	0.00003	0.00102
	B0	0.00012	0.00012	0.00012
	B0	-0.00007	-0.00007	-0.00005
	B0	0.00118	0.00131	0.00219
	C0	-0.00012	0.00008	0.00126
	C0	0.00012	0.00012	0.00012
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00102	0.00119	0.00227

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00031	0.00032	0.00033
	(A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00028	-0.00027	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00029	-0.00027	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !C0 * Y)	0.00022	0.00023	0.00024
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

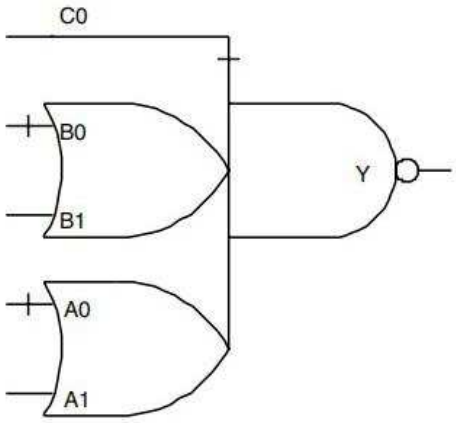
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7L	(A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00007	-0.00006	-0.00007
	(!A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00030	0.00031	0.00031
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X2H7L	0.00095	0.00104	0.00104	0.00111	0.04042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X2H7L	0.00000	0.80214	1.83051

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7L	A0->Y (FR)	0.03179	0.18431	0.63545
	A1->Y (FR)	0.03014	0.18427	0.64563
	B0->Y (FR)	0.01495	0.11322	0.45711
	C0->Y (FR)	0.01362	0.11042	0.45447

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7L	A0->Y (RF)	0.02430	0.12942	0.45748
	A1->Y (RF)	0.01754	0.12539	0.45285
	B0->Y (RF)	0.02243	0.13426	0.50018
	C0->Y (RF)	0.02030	0.13178	0.50378

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7L	A0	0.00170	0.00185	0.00274
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00017	0.00017	0.00017
	A0	-0.00015	-0.00000	0.00088
	A1	0.00148	0.00171	0.00284
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00017	0.00017	0.00017
	A1	-0.00009	0.00011	0.00123
	B0	0.00135	0.00161	0.00295
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00005	0.00009	0.00011
	B0	-0.00014	0.00013	0.00153
	C0	0.00118	0.00145	0.00297
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00002	0.00003	0.00004
	C0	-0.00012	0.00017	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7L	A0	-0.00012	-0.00002	0.00071
	A0	0.00014	0.00015	0.00015
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00173	0.00185	0.00259
	A1	-0.00013	0.00000	0.00089
	A1	0.00008	0.00009	0.00009
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00150	0.00164	0.00254
	B0	-0.00014	0.00004	0.00124
	B0	0.00014	0.00015	0.00015
	B0	-0.00009	-0.00009	-0.00005
	B0	0.00135	0.00150	0.00257
	C0	-0.00014	0.00010	0.00152
	C0	0.00014	0.00015	0.00015
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00115	0.00135	0.00265

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00012
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00013
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00031	-0.00029	-0.00026
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00031	-0.00029	-0.00027
	(!A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00031	-0.00030	-0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * !C0 * Y)	0.00025	0.00026	0.00027
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !C0 * Y)	0.00025	0.00026	0.00028
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

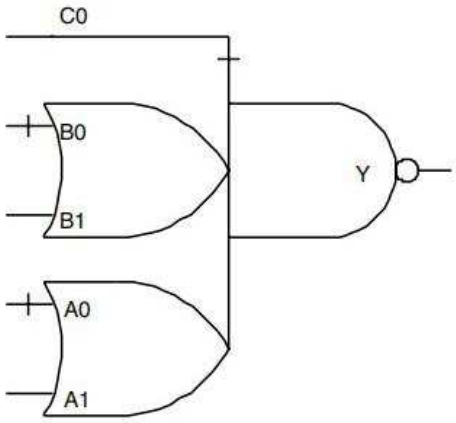
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7L	(A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00034	0.00035	0.00035
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X3H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X3H7L	0.00161	0.00174	0.00167	0.00168	0.06222

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X3H7L	0.00000	1.29574	2.93197

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7L	A0->Y (FR)	0.03347	0.18590	0.63487
	A1->Y (FR)	0.03088	0.18497	0.64634
	B0->Y (FR)	0.01513	0.11293	0.45491
	C0->Y (FR)	0.01273	0.10832	0.45142

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7L	A0->Y (RF)	0.02634	0.13295	0.46273
	A1->Y (RF)	0.01631	0.12862	0.45908
	B0->Y (RF)	0.02380	0.13716	0.50421
	C0->Y (RF)	0.01925	0.13239	0.50638

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7L	A0	0.00311	0.00332	0.00467
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00025	0.00026	0.00026
	A0	-0.00003	0.00018	0.00153
	A1	0.00263	0.00296	0.00473
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00025	0.00026	0.00026
	A1	-0.00004	0.00028	0.00203
	B0	0.00249	0.00288	0.00499
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00008	0.00013	0.00019
	B0	-0.00014	0.00034	0.00254
	C0	0.00198	0.00242	0.00485
	C0	-0.00014	-0.00013	-0.00013
	C0	0.00002	0.00004	0.00006
	C0	-0.00018	0.00030	0.00288

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7L	A0	-0.00022	-0.00005	0.00105
	A0	0.00022	0.00022	0.00022
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00294	0.00310	0.00422
	A1	-0.00020	0.00002	0.00137
	A1	0.00013	0.00014	0.00014
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00255	0.00276	0.00414
	B0	-0.00021	0.00006	0.00194
	B0	0.00022	0.00022	0.00022
	B0	-0.00013	-0.00013	-0.00008
	B0	0.00228	0.00253	0.00417
	C0	-0.00021	0.00017	0.00250
	C0	0.00022	0.00022	0.00022
	C0	-0.00004	-0.00004	0.00000
	C0	0.00186	0.00219	0.00429

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * B0 * C0 * !Y)	-0.00029	-0.00026	-0.00021
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00054	0.00056	0.00060
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00027	-0.00024
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00053	0.00053	0.00054
	(A1 * !B0 * Y)	-0.00029	-0.00027	-0.00024
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00053	0.00053	0.00054
	(!A1 * B0 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	0.00050	0.00050	0.00051
	(!A1 * !B0 * C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * B0 * C0 * !Y)	0.00031	0.00032	0.00032
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00053	-0.00053	-0.00052
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00053	-0.00053	-0.00052
	(!A1 * B0 * !C0 * Y)	0.00035	0.00036	0.00038
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00047	-0.00044	-0.00040
	(!A1 * !B0 * C0 * Y)	0.00035	0.00036	0.00037
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00048	-0.00046	-0.00042
	(!A1 * !B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00048	-0.00046	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00066	0.00067	0.00067
	(A0 * B0 * !C0 * Y)	-0.00035	-0.00033	-0.00030
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00049	0.00050	0.00050
	(A0 * !B0 * C0 * Y)	-0.00035	-0.00033	-0.00030
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00049	0.00050	0.00050
	(A0 * !B0 * !C0 * Y)	-0.00035	-0.00033	-0.00030
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00049	0.00049	0.00050
	(!A0 * B0 * !C0 * Y)	-0.00041	-0.00041	-0.00040
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00046	0.00046	0.00046
	(!A0 * !B0 * C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00046	0.00047	0.00047
	(!A0 * !B0 * !C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00067	-0.00066	-0.00066
	(A0 * B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00049	-0.00049	-0.00048
	(A0 * !B0 * C0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00049	-0.00049	-0.00048
	(A0 * !B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * B0 * !C0 * Y)	0.00041	0.00042	0.00045
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00043	-0.00040	-0.00034
	(!A0 * !B0 * C0 * Y)	0.00041	0.00042	0.00043
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00044	-0.00041	-0.00037
	(!A0 * !B0 * !C0 * Y)	0.00041	0.00041	0.00041
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00044	-0.00042	-0.00038

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * Y)	0.00050	0.00051	0.00051
	(A0 * !A1 * !C0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00050	0.00050	0.00051
	(!A0 * !A1 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * !C0 * Y)	0.00036	0.00038	0.00041
	(A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * Y)	-0.00048	-0.00045	-0.00041
	(A0 * !A1 * !C0 * Y)	0.00036	0.00038	0.00041
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00048	-0.00045	-0.00040
	(!A0 * !A1 * C0 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * !B0 * Y)	-0.00051	-0.00050	-0.00050
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * Y)	-0.00051	-0.00050	-0.00049
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

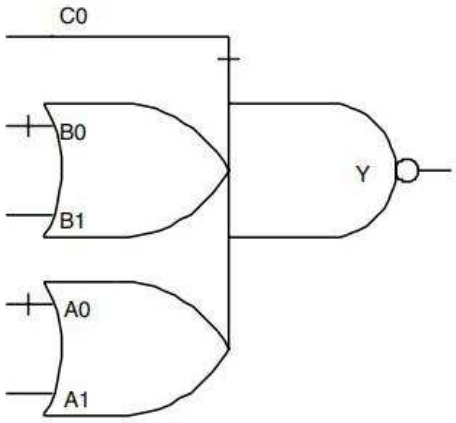
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7L	(A1 * !B0 * Y)	0.00050	0.00051	0.00051
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014

OAI211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X4H7L	0.00198	0.00208	0.00206	0.00209	0.07984

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X4H7L	0.00000	1.60427	3.66101

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7L	A0->Y (FR)	0.03190	0.18483	0.63727
	A1->Y (FR)	0.02897	0.18350	0.64612
	B0->Y (FR)	0.01447	0.11213	0.45537
	C0->Y (FR)	0.01234	0.10802	0.45230

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7L	A0->Y (RF)	0.02484	0.13008	0.45787
	A1->Y (RF)	0.01243	0.12544	0.45352
	B0->Y (RF)	0.02269	0.13504	0.50064
	C0->Y (RF)	0.01882	0.13101	0.50315

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7L	A0	0.00387	0.00413	0.00585
	A0	-0.00029	-0.00029	-0.00029
	A0	0.00033	0.00034	0.00034
	A0	-0.00008	0.00018	0.00189
	A1	0.00321	0.00362	0.00589
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00033	0.00034	0.00034
	A1	-0.00012	0.00029	0.00254
	B0	0.00316	0.00365	0.00632
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00004	0.00017	0.00022
	B0	-0.00016	0.00039	0.00318
	C0	0.00258	0.00313	0.00620
	C0	-0.00018	-0.00018	-0.00016
	C0	0.00003	0.00005	0.00008
	C0	-0.00022	0.00039	0.00365

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7L	A0	-0.00029	-0.00007	0.00135
	A0	0.00029	0.00029	0.00029
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00365	0.00388	0.00532
	A1	-0.00026	0.00002	0.00179
	A1	0.00017	0.00018	0.00019
	A1	-0.00034	-0.00034	-0.00033
	A1	0.00315	0.00343	0.00522
	B0	-0.00028	0.00007	0.00247
	B0	0.00029	0.00029	0.00029
	B0	-0.00018	-0.00017	-0.00004
	B0	0.00287	0.00322	0.00531
	C0	-0.00027	0.00021	0.00314
	C0	0.00029	0.00029	0.00029
	C0	-0.00005	-0.00005	-0.00001
	C0	0.00238	0.00280	0.00544

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * B0 * C0 * !Y)	-0.00038	-0.00034	-0.00027
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00062	0.00065	0.00068
	(A1 * B0 * !C0 * Y)	-0.00039	-0.00036	-0.00032
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00061	0.00061	0.00061
	(A1 * !B0 * Y)	-0.00039	-0.00036	-0.00032
	(A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00061	0.00061	0.00061
	(!A1 * B0 * !C0 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	0.00056	0.00057	0.00057
	(!A1 * !B0 * C0 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00057	0.00058	0.00058
	(!A1 * !B0 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00054	0.00054	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00060	-0.00060	-0.00060
	(A1 * !B0 * Y)	0.00038	0.00039	0.00039
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00061	-0.00060	-0.00060
	(!A1 * B0 * !C0 * Y)	0.00048	0.00049	0.00051
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00054	-0.00050	-0.00045
	(!A1 * !B0 * C0 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00054	-0.00052	-0.00047
	(!A1 * !B0 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00054	-0.00052	-0.00048

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00078	0.00079	0.00079
	(A0 * B0 * !C0 * Y)	-0.00045	-0.00042	-0.00038
	(A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00056	0.00057	0.00057
	(A0 * !B0 * C0 * Y)	-0.00045	-0.00042	-0.00038
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00056	0.00057	0.00057
	(A0 * !B0 * !C0 * Y)	-0.00045	-0.00042	-0.00038
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(!A0 * B0 * !C0 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * !B0 * C0 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !B0 * !C0 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00050	0.00050	0.00050

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00079	-0.00079	-0.00078
	(A0 * B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !B0 * C0 * Y)	0.00045	0.00045	0.00045
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * B0 * !C0 * Y)	0.00053	0.00055	0.00057
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00049	-0.00045	-0.00040
	(!A0 * !B0 * C0 * Y)	0.00053	0.00054	0.00055
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * !B0 * !C0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00050	-0.00047	-0.00043

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00057	0.00058	0.00058
	(A0 * !A1 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00057	0.00058	0.00058
	(!A0 * !A1 * C0 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !C0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * !C0 * Y)	0.00048	0.00051	0.00054
	(A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00054	-0.00051	-0.00046
	(A0 * !A1 * !C0 * Y)	0.00048	0.00051	0.00055
	(A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00054	-0.00051	-0.00045
	(!A0 * !A1 * C0 * Y)	0.00050	0.00050	0.00050
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * Y)	0.00050	0.00051	0.00052
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * !C0 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * !B0 * Y)	-0.00066	-0.00065	-0.00065
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * Y)	-0.00066	-0.00065	-0.00064
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * Y)	-0.00065	-0.00065	-0.00064
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for C0 falling (conditional):

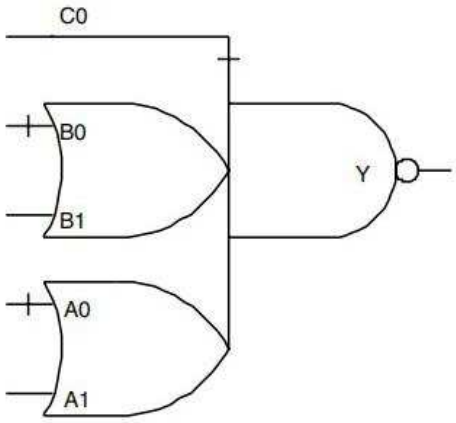
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7L	(A1 * !B0 * Y)	0.00065	0.00065	0.00066
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * Y)	0.00065	0.00065	0.00066
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B0 * Y)	0.00064	0.00065	0.00065
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * Y)	-0.00013	-0.00013	-0.00012

OAI211X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X6H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X6H7L	0.00291	0.00293	0.00303	0.00314	0.12004

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X6H7L	0.00000	2.40640	5.49152

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7L	A0->Y (FR)	0.03033	0.18331	0.63694
	A1->Y (FR)	0.02703	0.18164	0.64549
	B0->Y (FR)	0.01359	0.11110	0.45547
	C0->Y (FR)	0.01165	0.10726	0.45257

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7L	A0->Y (RF)	0.02371	0.12960	0.45996
	A1->Y (RF)	0.00817	0.12430	0.45465
	B0->Y (RF)	0.02142	0.13438	0.50197
	C0->Y (RF)	0.01801	0.13118	0.50853

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7L	A0	0.00561	0.00605	0.00869
	A0	-0.00044	-0.00043	-0.00042
	A0	0.00050	0.00051	0.00051
	A0	-0.00019	0.00022	0.00283
	A1	0.00468	0.00531	0.00878
	A1	-0.00027	-0.00027	-0.00026
	A1	0.00050	0.00051	0.00051
	A1	-0.00018	0.00043	0.00385
	B0	0.00451	0.00529	0.00938
	B0	-0.00027	-0.00027	-0.00026
	B0	0.00024	0.00026	0.00036
	B0	-0.00043	0.00049	0.00476
	C0	0.00377	0.00461	0.00927
	C0	-0.00027	-0.00027	-0.00026
	C0	0.00007	0.00008	0.00011
	C0	-0.00037	0.00057	0.00552

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7L	A0	-0.00043	-0.00010	0.00209
	A0	0.00042	0.00043	0.00044
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00537	0.00575	0.00798
	A1	-0.00046	-0.00003	0.00274
	A1	0.00026	0.00027	0.00027
	A1	-0.00051	-0.00051	-0.00050
	A1	0.00455	0.00496	0.00776
	B0	-0.00042	0.00013	0.00385
	B0	0.00043	0.00043	0.00043
	B0	-0.00026	-0.00026	-0.00018
	B0	0.00430	0.00477	0.00801
	C0	-0.00042	0.00032	0.00480
	C0	0.00043	0.00043	0.00043
	C0	-0.00008	-0.00008	-0.00002
	C0	0.00354	0.00417	0.00818

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * B0 * C0 * !Y)	-0.00056	-0.00051	-0.00042
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * !Y)	0.00092	0.00097	0.00106
	(A1 * B0 * !C0 * Y)	-0.00057	-0.00052	-0.00047
	(A1 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00091	0.00092	0.00092
	(A1 * !B0 * Y)	-0.00057	-0.00053	-0.00048
	(A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00091	0.00092	0.00092
	(!A1 * B0 * !C0 * Y)	-0.00068	-0.00068	-0.00068
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !C0 * Y)	0.00086	0.00087	0.00087
	(!A1 * !B0 * C0 * Y)	-0.00068	-0.00068	-0.00067
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00086	0.00088	0.00088
	(!A1 * !B0 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00082	0.00083	0.00083

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * B0 * C0 * !Y)	0.00063	0.00063	0.00063
	(A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00091	-0.00090	-0.00090
	(A1 * B0 * !C0 * Y)	0.00057	0.00057	0.00058
	(A1 * B0 * !C0 * Y)	0.00003	0.00004	0.00005
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00091	-0.00091	-0.00090
	(A1 * !B0 * Y)	0.00056	0.00057	0.00057
	(A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00092	-0.00091	-0.00090
	(!A1 * B0 * !C0 * Y)	0.00070	0.00071	0.00075
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00081	-0.00076	-0.00068
	(!A1 * !B0 * C0 * Y)	0.00069	0.00070	0.00072
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00082	-0.00078	-0.00072
	(!A1 * !B0 * !C0 * Y)	0.00068	0.00068	0.00069
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00082	-0.00078	-0.00073

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * !Y)	0.00110	0.00110	0.00110
	(A0 * B0 * !C0 * Y)	-0.00066	-0.00060	-0.00055
	(A0 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00080	0.00080	0.00081
	(A0 * !B0 * C0 * Y)	-0.00065	-0.00061	-0.00055
	(A0 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00080	0.00080	0.00081
	(A0 * !B0 * !C0 * Y)	-0.00065	-0.00061	-0.00055
	(A0 * !B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00079	0.00080	0.00080
	(!A0 * B0 * !C0 * Y)	-0.00076	-0.00076	-0.00075
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00074	0.00075	0.00075
	(!A0 * !B0 * C0 * Y)	-0.00076	-0.00076	-0.00075
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00075	0.00076	0.00076
	(!A0 * !B0 * !C0 * Y)	-0.00076	-0.00076	-0.00076
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00071	0.00072	0.00072

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00110	-0.00110	-0.00109
	(A0 * B0 * !C0 * Y)	0.00065	0.00065	0.00066
	(A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00079	-0.00079	-0.00078
	(A0 * !B0 * C0 * Y)	0.00065	0.00065	0.00065
	(A0 * !B0 * C0 * Y)	0.00004	0.00005	0.00005
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00080	-0.00079	-0.00079
	(A0 * !B0 * !C0 * Y)	0.00064	0.00065	0.00065
	(A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00080	-0.00079	-0.00079
	(!A0 * B0 * !C0 * Y)	0.00077	0.00078	0.00081
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00070	-0.00064	-0.00055
	(!A0 * !B0 * C0 * Y)	0.00077	0.00077	0.00078
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00071	-0.00067	-0.00059
	(!A0 * !B0 * !C0 * Y)	0.00076	0.00076	0.00077
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00071	-0.00067	-0.00061

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * !C0 * Y)	-0.00070	-0.00070	-0.00069
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00085	0.00086	0.00086
	(A0 * !A1 * !C0 * Y)	-0.00070	-0.00070	-0.00069
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00085	0.00086	0.00086
	(!A0 * !A1 * C0 * Y)	-0.00072	-0.00071	-0.00071
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !C0 * Y)	-0.00072	-0.00072	-0.00071
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * !C0 * Y)	0.00072	0.00076	0.00081
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00080	-0.00076	-0.00069
	(A0 * !A1 * !C0 * Y)	0.00072	0.00076	0.00081
	(A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00080	-0.00075	-0.00067
	(!A0 * !A1 * C0 * Y)	0.00073	0.00074	0.00075
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * Y)	0.00073	0.00075	0.00076
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * !B0 * Y)	-0.00099	-0.00098	-0.00097
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	-0.00099	-0.00099	-0.00098
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * Y)	-0.00098	-0.00098	-0.00096
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for C0 falling (conditional):

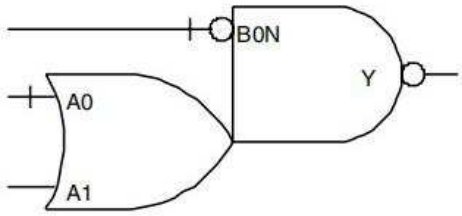
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7L	(A1 * !B0 * Y)	0.00099	0.00099	0.00099
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * Y)	0.00098	0.00099	0.00099
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * B0 * Y)	0.00097	0.00098	0.00099
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	-0.00018	-0.00018	-0.00017

OAI21BX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P5H7L	0.00068	0.00079	0.00084	0.02241

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P5H7L	0.00000	1.36202	2.36343

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7L	A0->Y (FR)	0.03675	0.18652	0.62773
	A1->Y (FR)	0.03611	0.18773	0.64066
	B0N->Y (RR)	0.02859	0.09485	0.25265

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7L	A0->Y (RF)	0.02298	0.10931	0.40219
	A1->Y (RF)	0.02226	0.10696	0.39995
	B0N->Y (FF)	0.03718	0.12987	0.36124

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	A0	0.00074	0.00084	0.00140
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	0.00006	0.00061
	A1	0.00068	0.00082	0.00150
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00006	0.00006	0.00006
	A1	0.00000	0.00013	0.00081
	B0N	0.00064	0.00093	0.00189
	B0N	-0.00002	-0.00002	-0.00001
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00102	0.00131	0.00228

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	A0	0.00016	0.00023	0.00072
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00093	0.00102	0.00151
	A1	0.00012	0.00021	0.00077
	A1	0.00003	0.00003	0.00003
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00082	0.00090	0.00147
	B0N	0.00098	0.00129	0.00237
	B0N	0.00003	0.00004	0.00004
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00059	0.00090	0.00195

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(A1 * B0N * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00026	0.00026	0.00026
	(A1 * !B0N * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00026	0.00027	0.00028
	(!A1 * B0N * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(A1 * B0N * Y)	0.00008	0.00009	0.00009
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0N * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0N * Y)	0.00010	0.00011	0.00013
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(A0 * B0N * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00000
	(A0 * B0N * Y)	0.00022	0.00022	0.00022
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00028	0.00028	0.00029
	(!A0 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00000	0.00000	0.00001
	(!A0 * B0N * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(A0 * B0N * Y)	0.00015	0.00015	0.00015
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0N * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0N * Y)	0.00016	0.00017	0.00018
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0N * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(!A0 * !A1 * Y)	0.00011	0.00038	0.00130
	(!A0 * !A1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * Y)	0.00080	0.00107	0.00199

Passive power(pJ) for B0N falling (conditional):

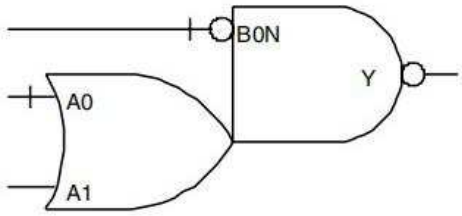
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7L	(!A0 * !A1 * Y)	0.00066	0.00096	0.00197
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00002	0.00028	0.00128

OAI21BX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P7H7L	0.00072	0.00084	0.00084	0.02547

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P7H7L	0.00000	1.40911	2.46074

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7L	A0->Y (FR)	0.03430	0.18490	0.63056
	A1->Y (FR)	0.03357	0.18594	0.64231
	B0N->Y (RR)	0.02782	0.09477	0.25361

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7L	A0->Y (RF)	0.02151	0.10723	0.40037
	A1->Y (RF)	0.01846	0.10480	0.39898
	B0N->Y (FF)	0.03632	0.12914	0.36065

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	A0	0.00079	0.00090	0.00152
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	0.00006	0.00068
	A1	0.00073	0.00087	0.00164
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00007	0.00007	0.00007
	A1	-0.00001	0.00014	0.00090
	B0N	0.00070	0.00098	0.00196
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00000	0.00000	0.00000
	B0N	0.00105	0.00134	0.00232

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	A0	0.00017	0.00025	0.00080
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00100	0.00110	0.00165
	A1	0.00013	0.00023	0.00086
	A1	0.00003	0.00003	0.00004
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00088	0.00098	0.00162
	B0N	0.00101	0.00132	0.00242
	B0N	0.00005	0.00005	0.00005
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00065	0.00095	0.00201

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(A1 * B0N * Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00027	0.00027	0.00028
	(A1 * !B0N * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0N * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(A1 * B0N * Y)	0.00009	0.00010	0.00010
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0N * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0N * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0N * Y)	0.00011	0.00012	0.00014
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(A0 * B0N * Y)	-0.00016	-0.00016	-0.00015
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00000
	(A0 * B0N * Y)	0.00023	0.00023	0.00023
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0N * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(A0 * B0N * Y)	0.00016	0.00016	0.00016
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0N * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0N * Y)	0.00018	0.00019	0.00020
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0N * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(!A0 * !A1 * Y)	0.00013	0.00040	0.00132
	(!A0 * !A1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00082	0.00109	0.00201

Passive power(pJ) for B0N falling (conditional):

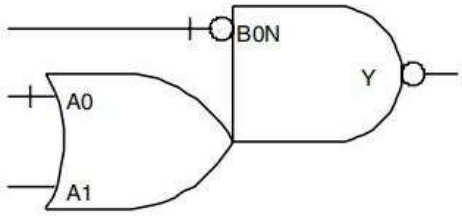
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7L	(!A0 * !A1 * Y)	0.00067	0.00096	0.00196
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00003	0.00027	0.00126

OAI21BX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1H7L	0.00078	0.00092	0.00084	0.03032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1H7L	0.00000	1.48786	2.61865

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7L	A0->Y (FR)	0.03116	0.18268	0.63202
	A1->Y (FR)	0.03016	0.18339	0.64326
	B0N->Y (RR)	0.02689	0.09477	0.25527

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7L	A0->Y (RF)	0.01998	0.10641	0.40426
	A1->Y (RF)	0.01372	0.10368	0.40138
	B0N->Y (FF)	0.03566	0.12996	0.36426

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7L	A0	0.00087	0.00100	0.00172
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	0.00005	0.00077
	A1	0.00079	0.00095	0.00185
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00008	0.00008	0.00008
	A1	-0.00003	0.00014	0.00103
	B0N	0.00077	0.00106	0.00206
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00000	0.00001	0.00001
	B0N	0.00108	0.00137	0.00238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7L	A0	0.00018	0.00028	0.00091
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00109	0.00122	0.00186
	A1	0.00014	0.00026	0.00101
	A1	0.00004	0.00004	0.00004
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00097	0.00108	0.00184
	B0N	0.00104	0.00136	0.00248
	B0N	0.00007	0.00007	0.00007
	B0N	-0.00001	-0.00001	-0.00000
	B0N	0.00073	0.00103	0.00211

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(A1 * B0N * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00029	0.00029	0.00029
	(A1 * !B0N * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00029	0.00030	0.00031
	(!A1 * B0N * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(A1 * B0N * Y)	0.00011	0.00011	0.00012
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0N * !Y)	0.00012	0.00012	0.00013
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0N * Y)	0.00013	0.00015	0.00016
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(A0 * B0N * Y)	-0.00018	-0.00017	-0.00016
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00000
	(A0 * B0N * Y)	0.00025	0.00025	0.00025
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00033	0.00033	0.00033
	(!A0 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(A0 * B0N * Y)	0.00018	0.00018	0.00018
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0N * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00033	-0.00033	-0.00032
	(!A0 * B0N * Y)	0.00020	0.00021	0.00022
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(!A0 * !A1 * Y)	0.00016	0.00043	0.00134
	(!A0 * !A1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00086	0.00113	0.00204

Passive power(pJ) for B0N falling (conditional):

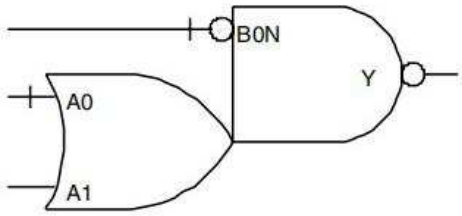
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7L	(!A0 * !A1 * Y)	0.00067	0.00096	0.00195
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00003	0.00026	0.00125

OAI21BX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1P4H7L	0.00084	0.00099	0.00085	0.03457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1P4H7L	0.00000	1.57516	2.79230

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7L	A0->Y (FR)	0.02936	0.18147	0.63382
	A1->Y (FR)	0.02830	0.18210	0.64559
	B0N->Y (RR)	0.02660	0.09530	0.25727

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7L	A0->Y (RF)	0.01893	0.10461	0.40112
	A1->Y (RF)	0.00963	0.10176	0.39855
	B0N->Y (FF)	0.03542	0.13002	0.36446

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	A0	0.00095	0.00109	0.00192
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	0.00006	0.00088
	A1	0.00084	0.00103	0.00206
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	0.00015	0.00117
	B0N	0.00085	0.00114	0.00216
	B0N	-0.00004	-0.00003	-0.00003
	B0N	0.00001	0.00001	0.00001
	B0N	0.00112	0.00142	0.00245

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	A0	0.00020	0.00030	0.00102
	A0	0.00009	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00119	0.00133	0.00206
	A1	0.00016	0.00029	0.00115
	A1	0.00005	0.00005	0.00005
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00105	0.00119	0.00205
	B0N	0.00110	0.00141	0.00256
	B0N	0.00007	0.00008	0.00008
	B0N	-0.00001	-0.00001	-0.00001
	B0N	0.00080	0.00111	0.00221

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(A1 * B0N * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00030	0.00030	0.00030
	(A1 * !B0N * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00030	0.00031	0.00033
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(A1 * B0N * Y)	0.00013	0.00013	0.00013
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0N * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0N * Y)	0.00015	0.00016	0.00018
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(A0 * B0N * Y)	-0.00020	-0.00019	-0.00018
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00001
	(A0 * B0N * Y)	0.00026	0.00026	0.00027
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0N * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00000	0.00000	0.00001
	(!A0 * B0N * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(A0 * B0N * Y)	0.00020	0.00020	0.00020
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0N * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0N * Y)	0.00022	0.00023	0.00025
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0N * Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(!A0 * !A1 * Y)	0.00019	0.00045	0.00136
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00090	0.00116	0.00207

Passive power(pJ) for B0N falling (conditional):

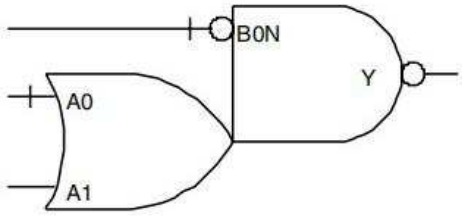
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7L	(!A0 * !A1 * Y)	0.00067	0.00097	0.00195
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00003	0.00025	0.00123

OAI21BX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX2H7L	0.00096	0.00108	0.00087	0.04082

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX2H7L	0.00000	1.72513	3.08501

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7L	A0->Y (FR)	0.02656	0.17919	0.63544
	A1->Y (FR)	0.02505	0.17940	0.64592
	B0N->Y (RR)	0.02657	0.09662	0.26078

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7L	A0->Y (RF)	0.01448	0.10106	0.39482
	A1->Y (RF)	0.00222	0.09778	0.39170
	B0N->Y (FF)	0.03554	0.13024	0.36395

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7L	A0	0.00102	0.00118	0.00218
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00011	0.00011	0.00011
	A0	-0.00014	0.00002	0.00101
	A1	0.00085	0.00108	0.00232
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	-0.00011	0.00013	0.00136
	B0N	0.00095	0.00125	0.00230
	B0N	-0.00005	-0.00004	-0.00004
	B0N	0.00001	0.00001	0.00001
	B0N	0.00119	0.00150	0.00258

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7L	A0	0.00022	0.00035	0.00122
	A0	0.00011	0.00011	0.00011
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00135	0.00150	0.00239
	A1	0.00018	0.00035	0.00140
	A1	0.00006	0.00006	0.00006
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00116	0.00132	0.00238
	B0N	0.00116	0.00149	0.00270
	B0N	0.00009	0.00010	0.00010
	B0N	-0.00001	-0.00001	-0.00001
	B0N	0.00090	0.00121	0.00234

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(A1 * B0N * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00034	0.00034	0.00034
	(A1 * !B0N * !Y)	-0.00016	-0.00014	-0.00013
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00034	0.00035	0.00036
	(!A1 * B0N * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(A1 * B0N * Y)	0.00015	0.00015	0.00016
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0N * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0N * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0N * Y)	0.00018	0.00019	0.00021
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	-0.00031	-0.00030	-0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(A0 * B0N * Y)	-0.00022	-0.00020	-0.00019
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00029	0.00030	0.00030
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00038	0.00039	0.00039
	(!A0 * B0N * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00000	0.00001	0.00001
	(!A0 * B0N * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(A0 * B0N * Y)	0.00021	0.00022	0.00022
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0N * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00039	-0.00038	-0.00038
	(!A0 * B0N * Y)	0.00024	0.00025	0.00027
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0N * Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(!A0 * !A1 * Y)	0.00025	0.00050	0.00140
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00098	0.00124	0.00213

Passive power(pJ) for B0N falling (conditional):

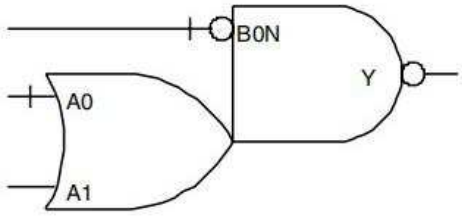
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7L	(!A0 * !A1 * Y)	0.00069	0.00097	0.00193
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00004	0.00023	0.00120

OAI21BX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX3H7L	0.00182	0.00162	0.00094	0.06353

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX3H7L	0.00000	2.50117	4.48433

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7L	A0->Y (FR)	0.02729	0.17977	0.63453
	A1->Y (FR)	0.02356	0.17782	0.64424
	B0N->Y (RR)	0.02474	0.09593	0.26171

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7L	A0->Y (RF)	0.01262	0.10279	0.39958
	A1->Y (RF)	-0.00204	0.09929	0.39763
	B0N->Y (FF)	0.03359	0.12991	0.36578

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7L	A0	0.00186	0.00211	0.00367
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	-0.00019	0.00007	0.00162
	A1	0.00135	0.00173	0.00373
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00017	0.00017	0.00017
	A1	-0.00016	0.00021	0.00219
	B0N	0.00154	0.00193	0.00334
	B0N	-0.00007	-0.00007	-0.00007
	B0N	0.00002	0.00002	0.00003
	B0N	0.00155	0.00196	0.00336

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7L	A0	0.00033	0.00054	0.00191
	A0	0.00017	0.00017	0.00017
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00236	0.00257	0.00395
	A1	0.00036	0.00062	0.00233
	A1	0.00008	0.00009	0.00010
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00191	0.00217	0.00389
	B0N	0.00153	0.00196	0.00363
	B0N	0.00011	0.00015	0.00015
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00149	0.00189	0.00342

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(A1 * B0N * Y)	-0.00029	-0.00027	-0.00024
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	0.00000	0.00001	0.00001
	(A1 * B0N * Y)	0.00060	0.00060	0.00061
	(A1 * !B0N * !Y)	-0.00027	-0.00025	-0.00021
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00062	0.00064	0.00066
	(!A1 * B0N * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	0.00058	0.00059	0.00059

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(A1 * B0N * Y)	0.00029	0.00029	0.00029
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00060	-0.00060	-0.00059
	(A1 * !B0N * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00062	-0.00061	-0.00061
	(!A1 * B0N * Y)	0.00034	0.00038	0.00043
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	-0.00055	-0.00052	-0.00048

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(A0 * B0N * Y)	-0.00034	-0.00032	-0.00029
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00043	0.00043	0.00044
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00061	0.00061	0.00061
	(!A0 * B0N * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(A0 * B0N * Y)	0.00033	0.00034	0.00034
	(A0 * B0N * Y)	0.00002	0.00002	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0N * Y)	-0.00044	-0.00043	-0.00042
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00003	0.00004	0.00005
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00061	-0.00061	-0.00060
	(!A0 * B0N * Y)	0.00039	0.00041	0.00043
	(!A0 * B0N * Y)	0.00000	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00039	-0.00037	-0.00033

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(!A0 * !A1 * Y)	0.00039	0.00071	0.00183
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	0.00123	0.00155	0.00267

Passive power(pJ) for B0N falling (conditional):

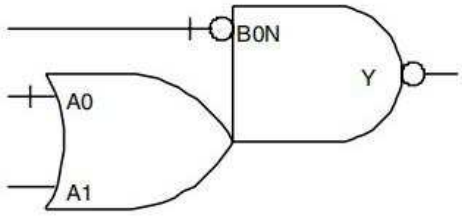
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7L	(!A0 * !A1 * Y)	0.00081	0.00117	0.00237
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	-0.00003	0.00032	0.00152

OAI21BX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX4H7L	0.00210	0.00193	0.00100	0.08326

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX4H7L	0.00000	2.99339	5.42600

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7L	A0->Y (FR)	0.02472	0.18011	0.64449
	A1->Y (FR)	0.02127	0.17844	0.65268
	B0N->Y (RR)	0.02310	0.09487	0.26181

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7L	A0->Y (RF)	0.00781	0.10139	0.40053
	A1->Y (RF)	-0.00746	0.09809	0.39918
	B0N->Y (FF)	0.02969	0.12792	0.36865

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7L	A0	0.00219	0.00251	0.00452
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00022	0.00022	0.00023
	A0	-0.00028	0.00006	0.00205
	A1	0.00162	0.00208	0.00464
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00022	0.00022	0.00023
	A1	-0.00022	0.00026	0.00279
	B0N	0.00186	0.00233	0.00399
	B0N	-0.00010	-0.00009	-0.00008
	B0N	0.00003	0.00003	0.00005
	B0N	0.00164	0.00212	0.00387

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7L	A0	0.00039	0.00066	0.00243
	A0	0.00022	0.00023	0.00023
	A0	-0.00023	-0.00022	-0.00022
	A0	0.00282	0.00309	0.00488
	A1	0.00038	0.00072	0.00294
	A1	0.00011	0.00012	0.00013
	A1	-0.00023	-0.00022	-0.00022
	A1	0.00225	0.00258	0.00482
	B0N	0.00170	0.00220	0.00421
	B0N	0.00016	0.00020	0.00023
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00180	0.00228	0.00410

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(A1 * B0N * Y)	-0.00037	-0.00034	-0.00031
	(A1 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00066	0.00067	0.00067
	(A1 * !B0N * !Y)	-0.00033	-0.00030	-0.00026
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00071	0.00072	0.00075
	(!A1 * B0N * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00065	0.00065	0.00065

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(A1 * B0N * Y)	0.00037	0.00037	0.00037
	(A1 * B0N * Y)	0.00003	0.00003	0.00003
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00067	-0.00066	-0.00066
	(A1 * !B0N * !Y)	0.00035	0.00036	0.00036
	(A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00070	-0.00069	-0.00069
	(!A1 * B0N * Y)	0.00043	0.00047	0.00052
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00061	-0.00057	-0.00053

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(A0 * B0N * Y)	-0.00042	-0.00039	-0.00036
	(A0 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00050	0.00050	0.00051
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00070	0.00071	0.00071
	(!A0 * B0N * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(A0 * B0N * Y)	0.00042	0.00042	0.00042
	(A0 * B0N * Y)	0.00003	0.00003	0.00003
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00050	-0.00049	-0.00047
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00005	0.00005	0.00005
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * B0N * Y)	0.00049	0.00051	0.00054
	(!A0 * B0N * Y)	0.00000	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00045	-0.00042	-0.00038

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(!A0 * !A1 * Y)	0.00050	0.00086	0.00211
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * Y)	0.00139	0.00176	0.00301

Passive power(pJ) for B0N falling (conditional):

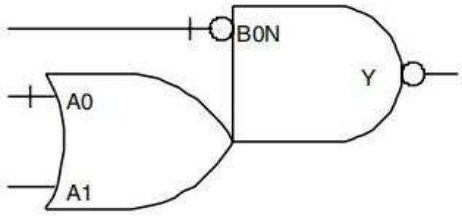
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7L	(!A0 * !A1 * Y)	0.00083	0.00123	0.00258
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * Y)	-0.00006	0.00033	0.00169

OAI21BX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX6H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX6H7L	0.00284	0.00298	0.00115	0.12118

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX6H7L	0.00000	4.18925	7.62935

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7L	A0->Y (FR)	0.02340	0.17653	0.63477
	A1->Y (FR)	0.02044	0.17555	0.64567
	B0N->Y (RR)	0.02589	0.09964	0.26729

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7L	A0->Y (RF)	0.00693	0.09992	0.39432
	A1->Y (RF)	-0.00916	0.09577	0.39115
	B0N->Y (FF)	0.03653	0.13651	0.37713

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7L	A0	0.00328	0.00376	0.00681
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00034	0.00034	0.00034
	A0	-0.00037	0.00012	0.00315
	A1	0.00236	0.00313	0.00701
	A1	-0.00018	-0.00017	-0.00014
	A1	0.00034	0.00034	0.00034
	A1	-0.00038	0.00035	0.00418
	B0N	0.00307	0.00365	0.00579
	B0N	-0.00015	-0.00015	-0.00013
	B0N	0.00005	0.00005	0.00006
	B0N	0.00248	0.00306	0.00538

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7L	A0	0.00062	0.00103	0.00373
	A0	0.00034	0.00034	0.00034
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00416	0.00462	0.00734
	A1	0.00058	0.00111	0.00447
	A1	0.00014	0.00017	0.00020
	A1	-0.00034	-0.00034	-0.00034
	A1	0.00341	0.00393	0.00732
	B0N	0.00251	0.00313	0.00584
	B0N	0.00025	0.00031	0.00032
	B0N	-0.00006	-0.00005	-0.00003
	B0N	0.00295	0.00351	0.00590

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(A1 * B0N * Y)	-0.00055	-0.00051	-0.00046
	(A1 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0N * Y)	0.00000	0.00001	0.00001
	(A1 * B0N * Y)	0.00091	0.00092	0.00093
	(A1 * !B0N * !Y)	-0.00054	-0.00049	-0.00042
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00092	0.00096	0.00103
	(!A1 * B0N * Y)	-0.00065	-0.00065	-0.00065
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00088	0.00089	0.00090

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(A1 * B0N * Y)	0.00054	0.00055	0.00055
	(A1 * B0N * Y)	0.00004	0.00004	0.00005
	(A1 * B0N * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0N * Y)	-0.00091	-0.00091	-0.00090
	(A1 * !B0N * !Y)	0.00060	0.00060	0.00061
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00091	-0.00090	-0.00090
	(!A1 * B0N * Y)	0.00067	0.00070	0.00075
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00083	-0.00079	-0.00072

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(A0 * B0N * Y)	-0.00067	-0.00062	-0.00056
	(A0 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00081	0.00082	0.00082
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0N * !Y)	-0.00007	-0.00007	-0.00005
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0N * !Y)	0.00113	0.00113	0.00113
	(!A0 * B0N * Y)	-0.00077	-0.00076	-0.00076
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00001	0.00002	0.00003
	(!A0 * B0N * Y)	0.00078	0.00079	0.00080

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(A0 * B0N * Y)	0.00066	0.00067	0.00067
	(A0 * B0N * Y)	0.00004	0.00004	0.00005
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00081	-0.00081	-0.00080
	(A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0N * !Y)	0.00007	0.00007	0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00113	-0.00112	-0.00111
	(!A0 * B0N * Y)	0.00078	0.00081	0.00086
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00074	-0.00070	-0.00063

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(!A0 * !A1 * Y)	0.00087	0.00126	0.00265
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * Y)	0.00195	0.00234	0.00373

Passive power(pJ) for B0N falling (conditional):

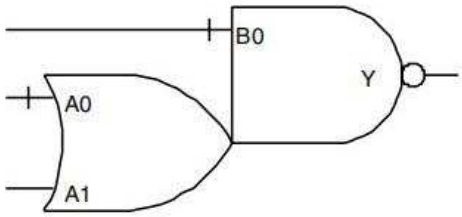
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7L	(!A0 * !A1 * Y)	0.00106	0.00150	0.00300
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * Y)	-0.00001	0.00042	0.00192

OAI21X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P5H7L	0.00070	0.00075	0.00079	0.02251

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P5H7L	0.00000	0.70552	1.27259

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7L	A0->Y (FR)	0.03622	0.18624	0.62990
	A1->Y (FR)	0.03463	0.18654	0.64080
	B0->Y (FR)	0.01604	0.11349	0.45279

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7L	A0->Y (RF)	0.02166	0.10829	0.40232
	A1->Y (RF)	0.01936	0.10536	0.39963
	B0->Y (RF)	0.01844	0.10602	0.41661

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	A0	0.00094	0.00103	0.00159
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	0.00003	0.00059
	A1	0.00083	0.00096	0.00165
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00006	0.00006	0.00006
	A1	-0.00000	0.00013	0.00081
	B0	0.00066	0.00084	0.00180
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00000	0.00002	0.00003
	B0	-0.00009	0.00010	0.00112

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	A0	-0.00006	0.00001	0.00050
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00093	0.00101	0.00151
	A1	-0.00008	0.00002	0.00059
	A1	0.00003	0.00003	0.00003
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00077	0.00086	0.00144
	B0	-0.00007	0.00009	0.00102
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00066	0.00081	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * Y)	-0.00013	-0.00012	-0.00012
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	-0.00018	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(!A0 * !A1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

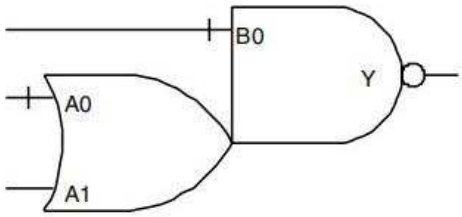
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7L	(!A0 * !A1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008

OAI21X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P7H7L	0.00075	0.00081	0.00085	0.02551

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P7H7L	0.00000	0.75261	1.36990

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7L	A0->Y (FR)	0.03402	0.18459	0.63118
	A1->Y (FR)	0.03237	0.18477	0.64170
	B0->Y (FR)	0.01522	0.11273	0.45397

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7L	A0->Y (RF)	0.02029	0.10618	0.40040
	A1->Y (RF)	0.01563	0.10321	0.39730
	B0->Y (RF)	0.01738	0.10434	0.41544

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	A0	0.00101	0.00112	0.00174
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00007	0.00007	0.00007
	A0	-0.00008	0.00003	0.00065
	A1	0.00089	0.00103	0.00181
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	0.00012	0.00089
	B0	0.00073	0.00092	0.00200
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00002	0.00002	0.00002
	B0	-0.00010	0.00012	0.00126

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	A0	-0.00007	0.00001	0.00056
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00101	0.00110	0.00165
	A1	-0.00008	0.00002	0.00066
	A1	0.00003	0.00003	0.00004
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00085	0.00094	0.00160
	B0	-0.00008	0.00009	0.00113
	B0	0.00007	0.00007	0.00007
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00073	0.00088	0.00183

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(A1 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * Y)	0.00011	0.00013	0.00015
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00026	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * Y)	0.00016	0.00017	0.00018
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(!A0 * !A1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

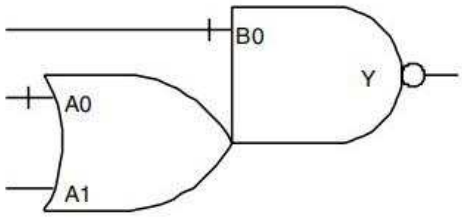
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7L	(!A0 * !A1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1H7L	0.00078	0.00087	0.00091	0.03037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1H7L	0.00000	0.83136	1.52782

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7L	A0->Y (FR)	0.03039	0.18177	0.63244
	A1->Y (FR)	0.02854	0.18163	0.64333
	B0->Y (FR)	0.01368	0.11116	0.45472

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7L	A0->Y (RF)	0.01842	0.10489	0.40280
	A1->Y (RF)	0.01000	0.10164	0.39963
	B0->Y (RF)	0.01582	0.10357	0.41916

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7L	A0	0.00108	0.00121	0.00194
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	0.00005	0.00077
	A1	0.00094	0.00111	0.00203
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00008	0.00008	0.00008
	A1	-0.00004	0.00013	0.00103
	B0	0.00079	0.00101	0.00227
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00002	0.00002	0.00002
	B0	-0.00013	0.00013	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7L	A0	-0.00009	0.00001	0.00065
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00106	0.00117	0.00182
	A1	-0.00010	0.00002	0.00079
	A1	0.00004	0.00004	0.00004
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00090	0.00102	0.00180
	B0	-0.00010	0.00011	0.00132
	B0	0.00008	0.00008	0.00008
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00079	0.00097	0.00208

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(A1 * B0 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * Y)	0.00013	0.00015	0.00016
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * Y)	0.00017	0.00018	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	-0.00021	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(!A0 * !A1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

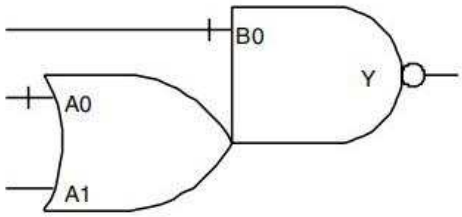
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7L	(!A0 * !A1 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008

OAI21X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1P4H7L	0.00085	0.00095	0.00097	0.03466

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1P4H7L	0.00000	0.91865	1.70146

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7L	A0->Y (FR)	0.02868	0.18069	0.63536
	A1->Y (FR)	0.02667	0.18034	0.64448
	B0->Y (FR)	0.01285	0.11044	0.45659

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7L	A0->Y (RF)	0.01732	0.10308	0.40052
	A1->Y (RF)	0.00585	0.09970	0.39861
	B0->Y (RF)	0.01480	0.10193	0.41689

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	A0	0.00118	0.00132	0.00215
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	0.00005	0.00087
	A1	0.00102	0.00120	0.00225
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00009	0.00009	0.00009
	A1	-0.00006	0.00013	0.00116
	B0	0.00086	0.00112	0.00254
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00001	0.00002	0.00003
	B0	-0.00013	0.00015	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	A0	-0.00010	0.00001	0.00074
	A0	0.00009	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00117	0.00128	0.00202
	A1	-0.00011	0.00003	0.00091
	A1	0.00005	0.00005	0.00005
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00099	0.00112	0.00201
	B0	-0.00011	0.00012	0.00150
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	0.00000
	B0	0.00087	0.00106	0.00232

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(A1 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !Y)	0.00029	0.00030	0.00031
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * Y)	0.00015	0.00017	0.00019
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * Y)	0.00019	0.00020	0.00022
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(!A0 * !A1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

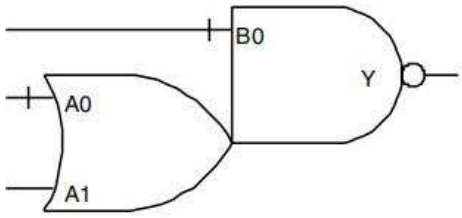
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7L	(!A0 * !A1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X2H7L	0.00095	0.00107	0.00108	0.04085

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X2H7L	0.00000	1.06862	1.99417

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7L	A0->Y (FR)	0.02679	0.17920	0.63557
	A1->Y (FR)	0.02485	0.17894	0.64561
	B0->Y (FR)	0.01208	0.10962	0.45629

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7L	A0->Y (RF)	0.01335	0.09995	0.39417
	A1->Y (RF)	0.00076	0.09646	0.39084
	B0->Y (RF)	0.01315	0.09925	0.41250

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7L	A0	0.00134	0.00150	0.00249
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	0.00005	0.00103
	A1	0.00114	0.00136	0.00260
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00011	0.00011	0.00011
	A1	-0.00009	0.00014	0.00137
	B0	0.00098	0.00129	0.00298
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00003	0.00008
	B0	-0.00015	0.00019	0.00199

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7L	A0	-0.00012	0.00001	0.00089
	A0	0.00011	0.00011	0.00011
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00131	0.00146	0.00235
	A1	-0.00012	0.00003	0.00110
	A1	0.00005	0.00006	0.00006
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00110	0.00128	0.00235
	B0	-0.00013	0.00014	0.00179
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00095	0.00120	0.00270

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(A1 * B0 * !Y)	-0.00016	-0.00014	-0.00013
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00033	0.00034
	(A1 * !B0 * Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * Y)	0.00018	0.00019	0.00021
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00036	0.00036	0.00037
	(A0 * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !B0 * Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * Y)	0.00022	0.00023	0.00025
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(!A0 * !A1 * Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

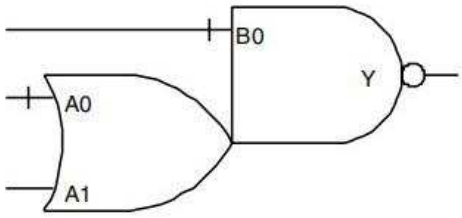
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7L	(!A0 * !A1 * Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006

OAI21X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X3H7L	0.00161	0.00169	0.00169	0.06340

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X3H7L	0.00000	1.73225	3.20135

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7L	A0->Y (FR)	0.02734	0.17960	0.63491
	A1->Y (FR)	0.02398	0.17782	0.64476
	B0->Y (FR)	0.01122	0.10815	0.45545

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7L	A0->Y (RF)	0.01258	0.10155	0.39852
	A1->Y (RF)	-0.00333	0.09727	0.39511
	B0->Y (RF)	0.01303	0.09988	0.41550

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7L	A0	0.00240	0.00264	0.00418
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	-0.00009	0.00016	0.00168
	A1	0.00188	0.00223	0.00423
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00017	0.00017	0.00017
	A1	-0.00016	0.00021	0.00217
	B0	0.00172	0.00221	0.00493
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00002	0.00004	0.00007
	B0	-0.00033	0.00023	0.00316

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7L	A0	-0.00021	0.00000	0.00139
	A0	0.00017	0.00017	0.00017
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00226	0.00247	0.00386
	A1	-0.00019	0.00008	0.00179
	A1	0.00008	0.00009	0.00009
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00188	0.00214	0.00387
	B0	-0.00021	0.00024	0.00294
	B0	0.00017	0.00017	0.00017
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00166	0.00204	0.00446

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(A1 * B0 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00053	0.00056	0.00059
	(A1 * !B0 * Y)	-0.00029	-0.00026	-0.00023
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(A1 * B0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00053	-0.00053	-0.00052
	(A1 * !B0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * !B0 * Y)	0.00035	0.00037	0.00040
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00047	-0.00045	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00066	0.00066	0.00066
	(A0 * !B0 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00046	0.00047	0.00048
	(!A0 * !B0 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * !B0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00046	-0.00046	-0.00045
	(!A0 * !B0 * Y)	0.00041	0.00043	0.00046
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00041	-0.00038	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(!A0 * !A1 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	0.00016	0.00016	0.00017

Passive power(pJ) for B0 falling (conditional):

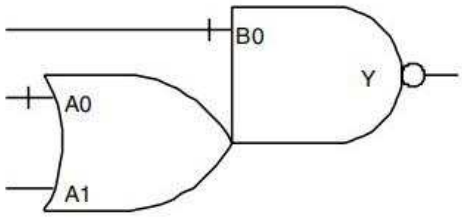
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7L	(!A0 * !A1 * Y)	0.00050	0.00050	0.00050
	(!A0 * !A1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	-0.00016	-0.00016	-0.00016

OAI21X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X4H7L	0.00188	0.00198	0.00197	0.08131

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X4H7L	0.00000	2.13724	3.98834

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7L	A0->Y (FR)	0.02461	0.17726	0.63567
	A1->Y (FR)	0.02165	0.17600	0.64534
	B0->Y (FR)	0.01036	0.10707	0.45575

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7L	A0->Y (RF)	0.00688	0.09844	0.39373
	A1->Y (RF)	-0.00905	0.09434	0.39029
	B0->Y (RF)	0.00788	0.09738	0.41124

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7L	A0	0.00280	0.00311	0.00511
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00022	0.00022	0.00023
	A0	-0.00021	0.00011	0.00210
	A1	0.00220	0.00265	0.00522
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00022	0.00022	0.00023
	A1	-0.00026	0.00022	0.00274
	B0	0.00200	0.00264	0.00612
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00003	0.00005	0.00006
	B0	-0.00039	0.00030	0.00405

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7L	A0	-0.00027	0.00001	0.00180
	A0	0.00022	0.00023	0.00023
	A0	-0.00023	-0.00022	-0.00022
	A0	0.00270	0.00298	0.00480
	A1	-0.00025	0.00010	0.00233
	A1	0.00011	0.00012	0.00013
	A1	-0.00023	-0.00022	-0.00022
	A1	0.00222	0.00258	0.00482
	B0	-0.00027	0.00031	0.00375
	B0	0.00022	0.00023	0.00023
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00190	0.00246	0.00556

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(A1 * B0 * !Y)	-0.00035	-0.00032	-0.00027
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00061	0.00064	0.00068
	(A1 * !B0 * Y)	-0.00036	-0.00033	-0.00029
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00061	0.00061	0.00062
	(!A1 * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00058	0.00059	0.00059

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(A1 * B0 * !Y)	0.00038	0.00039	0.00039
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00061	-0.00060	-0.00060
	(!A1 * !B0 * Y)	0.00043	0.00046	0.00049
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00054	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00076	0.00076	0.00077
	(A0 * !B0 * Y)	-0.00043	-0.00040	-0.00035
	(A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00054	0.00054	0.00055
	(!A0 * !B0 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00052	0.00052	0.00052

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * !B0 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !B0 * Y)	0.00050	0.00052	0.00056
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00047	-0.00045	-0.00040

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(!A0 * !A1 * Y)	-0.00061	-0.00061	-0.00060
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

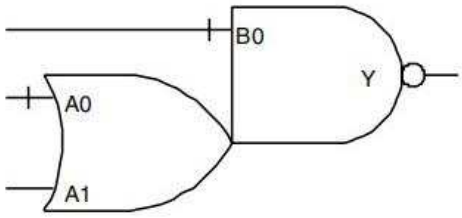
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7L	(!A0 * !A1 * Y)	0.00061	0.00061	0.00061
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * Y)	-0.00014	-0.00014	-0.00014

OAI21X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X6H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X6H7L	0.00278	0.00291	0.00293	0.12137

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X6H7L	0.00000	3.20586	5.98252

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7L	A0->Y (FR)	0.02330	0.17579	0.63425
	A1->Y (FR)	0.02041	0.17483	0.64546
	B0->Y (FR)	0.00986	0.10601	0.45437

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7L	A0->Y (RF)	0.00364	0.09746	0.39333
	A1->Y (RF)	-0.01263	0.09348	0.39023
	B0->Y (RF)	0.00541	0.09690	0.41210

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7L	A0	0.00407	0.00455	0.00760
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00025	0.00034	0.00035
	A0	-0.00041	0.00009	0.00313
	A1	0.00323	0.00392	0.00780
	A1	-0.00018	-0.00017	-0.00014
	A1	0.00034	0.00034	0.00034
	A1	-0.00041	0.00031	0.00415
	B0	0.00292	0.00387	0.00916
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00005	0.00008	0.00012
	B0	-0.00057	0.00048	0.00616

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7L	A0	-0.00039	0.00002	0.00277
	A0	0.00034	0.00034	0.00034
	A0	-0.00035	-0.00034	-0.00025
	A0	0.00395	0.00444	0.00722
	A1	-0.00043	0.00012	0.00354
	A1	0.00014	0.00017	0.00019
	A1	-0.00034	-0.00034	-0.00034
	A1	0.00326	0.00379	0.00724
	B0	-0.00040	0.00047	0.00570
	B0	0.00034	0.00034	0.00034
	B0	-0.00009	-0.00008	-0.00005
	B0	0.00283	0.00366	0.00838

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(A1 * B0 * !Y)	-0.00053	-0.00048	-0.00041
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00091	0.00096	0.00102
	(A1 * !B0 * Y)	-0.00053	-0.00049	-0.00045
	(A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00091	0.00091	0.00092
	(!A1 * !B0 * Y)	-0.00063	-0.00063	-0.00063
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	0.00088	0.00089	0.00089

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(A1 * B0 * !Y)	0.00058	0.00058	0.00059
	(A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00091	-0.00090	-0.00090
	(A1 * !B0 * Y)	0.00052	0.00053	0.00054
	(A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00091	-0.00090	-0.00090
	(!A1 * !B0 * Y)	0.00064	0.00068	0.00074
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00082	-0.00078	-0.00071

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00110	0.00111	0.00111
	(A0 * !B0 * Y)	-0.00064	-0.00059	-0.00054
	(A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00079	0.00080	0.00080
	(!A0 * !B0 * Y)	-0.00073	-0.00073	-0.00073
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	0.00077	0.00077	0.00078

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00111	-0.00110	-0.00109
	(A0 * !B0 * Y)	0.00063	0.00064	0.00064
	(A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00079	-0.00079	-0.00078
	(!A0 * !B0 * Y)	0.00074	0.00078	0.00083
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00071	-0.00066	-0.00060

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(!A0 * !A1 * Y)	-0.00090	-0.00089	-0.00089
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

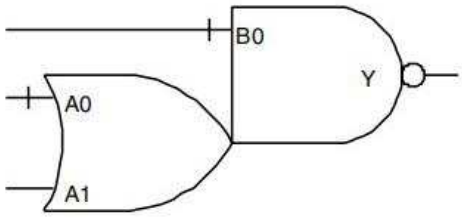
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7L	(!A0 * !A1 * Y)	0.00090	0.00090	0.00091
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * Y)	-0.00022	-0.00022	-0.00022

OAI21X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X8H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X8H7L	0.00368	0.00387	0.00394	0.16178

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X8H7L	0.00000	4.27447	7.97669

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7L	A0->Y (FR)	0.02294	0.17548	0.63432
	A1->Y (FR)	0.02002	0.17447	0.64550
	B0->Y (FR)	0.00959	0.10573	0.45388

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7L	A0->Y (RF)	0.00270	0.09719	0.39292
	A1->Y (RF)	-0.01380	0.09319	0.39017
	B0->Y (RF)	0.00456	0.09657	0.41180

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7L	A0	0.00548	0.00611	0.01020
	A0	-0.00045	-0.00045	-0.00045
	A0	0.00036	0.00045	0.00046
	A0	-0.00052	0.00014	0.00420
	A1	0.00430	0.00524	0.01043
	A1	-0.00024	-0.00023	-0.00023
	A1	0.00045	0.00045	0.00045
	A1	-0.00060	0.00036	0.00550
	B0	0.00396	0.00524	0.01231
	B0	-0.00024	-0.00023	-0.00023
	B0	0.00009	0.00011	0.00018
	B0	-0.00082	0.00060	0.00820

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7L	A0	-0.00054	0.00002	0.00371
	A0	0.00045	0.00045	0.00045
	A0	-0.00046	-0.00045	-0.00036
	A0	0.00529	0.00594	0.00967
	A1	-0.00054	0.00019	0.00477
	A1	0.00023	0.00023	0.00027
	A1	-0.00045	-0.00045	-0.00045
	A1	0.00442	0.00514	0.00977
	B0	-0.00055	0.00063	0.00763
	B0	0.00044	0.00045	0.00045
	B0	-0.00011	-0.00011	-0.00007
	B0	0.00395	0.00495	0.01129

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(A1 * B0 * !Y)	-0.00071	-0.00064	-0.00053
	(A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00120	0.00124	0.00130
	(A1 * !B0 * Y)	-0.00072	-0.00066	-0.00060
	(A1 * !B0 * Y)	-0.00008	-0.00006	-0.00006
	(A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * Y)	0.00119	0.00119	0.00121
	(!A1 * !B0 * Y)	-0.00085	-0.00085	-0.00085
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00115	0.00115	0.00116

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(A1 * B0 * !Y)	0.00078	0.00078	0.00079
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00118	-0.00117	-0.00117
	(A1 * !B0 * Y)	0.00069	0.00072	0.00072
	(A1 * !B0 * Y)	0.00006	0.00006	0.00008
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00119	-0.00118	-0.00117
	(!A1 * !B0 * Y)	0.00087	0.00092	0.00099
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00106	-0.00101	-0.00092

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !Y)	0.00151	0.00151	0.00151
	(A0 * !B0 * Y)	-0.00086	-0.00080	-0.00072
	(A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * Y)	0.00108	0.00109	0.00109
	(!A0 * !B0 * Y)	-0.00099	-0.00098	-0.00098
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00104	0.00104	0.00105

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00151	-0.00151	-0.00150
	(A0 * !B0 * Y)	0.00085	0.00085	0.00086
	(A0 * !B0 * Y)	0.00005	0.00006	0.00006
	(A0 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00108	-0.00107	-0.00106
	(!A0 * !B0 * Y)	0.00100	0.00104	0.00112
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00095	-0.00090	-0.00081

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(!A0 * !A1 * Y)	-0.00122	-0.00121	-0.00120
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

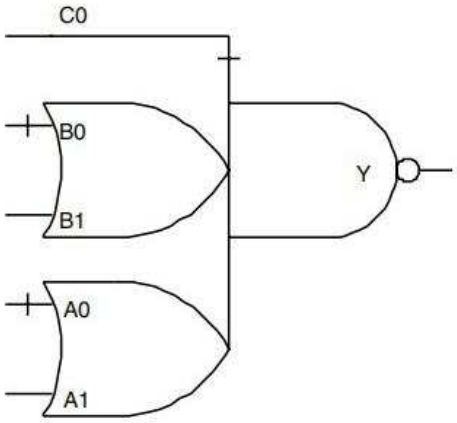
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7L	(!A0 * !A1 * Y)	0.00122	0.00123	0.00123
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * Y)	-0.00029	-0.00029	-0.00029

OAI221X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P5H7L	0.00070	0.00063	0.00075	0.00075	0.00084	0.02162

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P5H7L	0.00000	0.68293	1.27716

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7L	A0->Y (FR)	0.04628	0.19723	0.63856
	A1->Y (FR)	0.04737	0.19601	0.62694
	B0->Y (FR)	0.04126	0.18968	0.63077
	B1->Y (FR)	0.04337	0.18976	0.62124
	C0->Y (FR)	0.01904	0.11528	0.44690

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7L	A0->Y (RF)	0.03832	0.14476	0.46680
	A1->Y (RF)	0.03964	0.14698	0.46781
	B0->Y (RF)	0.03576	0.14789	0.50456
	B1->Y (RF)	0.03799	0.15127	0.50815
	C0->Y (RF)	0.03135	0.14455	0.50970

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7L	A0	0.00139	0.00150	0.00210
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00012	0.00012	0.00012
	A0	0.00005	0.00016	0.00076
	A1	0.00147	0.00156	0.00203
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00012	0.00012	0.00012
	A1	0.00000	0.00008	0.00056
	B0	0.00117	0.00127	0.00188
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00006	0.00006	0.00006
	B0	0.00005	0.00017	0.00079
	B1	0.00127	0.00136	0.00183
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00006	0.00006	0.00006
	B1	0.00002	0.00011	0.00061
	C0	0.00099	0.00114	0.00196
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00001	0.00001	0.00004
	C0	-0.00006	0.00011	0.00103

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7L	A0	-0.00007	-0.00000	0.00042
	A0	0.00007	0.00007	0.00008
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00131	0.00137	0.00176
	A1	-0.00007	-0.00001	0.00036
	A1	0.00010	0.00010	0.00010
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00143	0.00149	0.00183
	B0	-0.00008	0.00000	0.00050
	B0	0.00007	0.00007	0.00008
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00104	0.00111	0.00155
	B1	-0.00008	-0.00001	0.00042
	B1	0.00010	0.00010	0.00010
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00116	0.00123	0.00162
	C0	-0.00008	0.00006	0.00089
	C0	0.00010	0.00010	0.00010
	C0	-0.00001	-0.00001	0.00000
	C0	0.00095	0.00106	0.00174

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00010
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00019	-0.00017	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B0 * C0 * !Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00025	0.00026	0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00026	0.00027
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B0 * C0 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B1 * !C0 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * !C0 * Y)	0.00016	0.00017	0.00018
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00015	-0.00013
	(!A0 * !A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B0 * C0 * !Y)**	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7L	**(A0 * B0 * C0 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * !C0 * Y)	0.00014	0.00015	0.00017
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * Y)	0.00014	0.00015	0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7L	(A0 * !B0 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

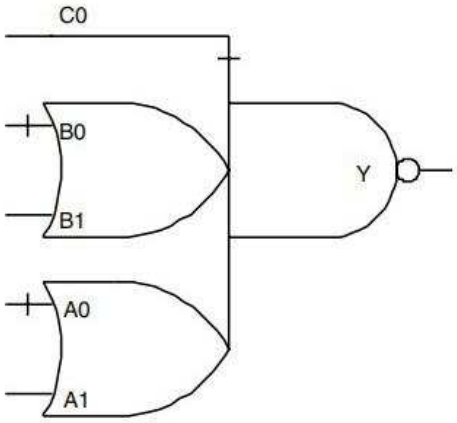
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7L	(A0 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00009	-0.00008	-0.00008

OAI221X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P7H7L	0.00079	0.00069	0.00078	0.00075	0.00085	0.02453

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P7H7L	0.00000	0.72998	1.37529

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7L	A0->Y (FR)	0.04531	0.19659	0.64104
	A1->Y (FR)	0.04595	0.19546	0.62936
	B0->Y (FR)	0.03765	0.18670	0.63111
	B1->Y (FR)	0.03938	0.18659	0.62134
	C0->Y (FR)	0.01748	0.11371	0.44746

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7L	A0->Y (RF)	0.03666	0.14228	0.46396
	A1->Y (RF)	0.03771	0.14440	0.46554
	B0->Y (RF)	0.03262	0.14399	0.50099
	B1->Y (RF)	0.03437	0.14661	0.50222
	C0->Y (RF)	0.02818	0.14030	0.50365

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7L	A0	0.00154	0.00167	0.00233
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00014	0.00014	0.00014
	A0	0.00009	0.00021	0.00087
	A1	0.00164	0.00174	0.00226
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00014	0.00014	0.00014
	A1	0.00005	0.00014	0.00066
	B0	0.00122	0.00135	0.00203
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00006	0.00007	0.00007
	B0	0.00006	0.00020	0.00090
	B1	0.00134	0.00144	0.00198
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00007	0.00007	0.00007
	B1	0.00007	0.00017	0.00073
	C0	0.00104	0.00121	0.00214
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00001	0.00002	0.00003
	C0	-0.00005	0.00014	0.00118

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7L	A0	-0.00009	-0.00001	0.00046
	A0	0.00008	0.00009	0.00009
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00141	0.00148	0.00192
	A1	-0.00008	-0.00002	0.00038
	A1	0.00012	0.00012	0.00012
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00154	0.00161	0.00198
	B0	-0.00008	0.00002	0.00058
	B0	0.00008	0.00009	0.00009
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00108	0.00116	0.00167
	B1	-0.00008	-0.00000	0.00049
	B1	0.00012	0.00012	0.00012
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00116	0.00125	0.00170
	C0	-0.00008	0.00007	0.00101
	C0	0.00012	0.00012	0.00012
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00098	0.00110	0.00188

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B0 * C0 * !Y)**	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00026	0.00027	0.00028
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00027	0.00028
	(A0 * !B0 * !B1 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B0 * C0 * !Y)**	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00012
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00011	0.00012	0.00012
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00012
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00003	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * !C0 * Y)	0.00013	0.00014	0.00014
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B1 * !C0 * Y)	0.00015	0.00016	0.00017
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * B1 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00016	0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B0 * C0 * !Y)**	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00025	0.00026	0.00027
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7L	**(A0 * B0 * C0 * !Y)**	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00016
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * B0 * C0 * !Y)	0.00010	0.00011	0.00011
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * Y)	0.00014	0.00015	0.00016
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7L	(A0 * !B0 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00001
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

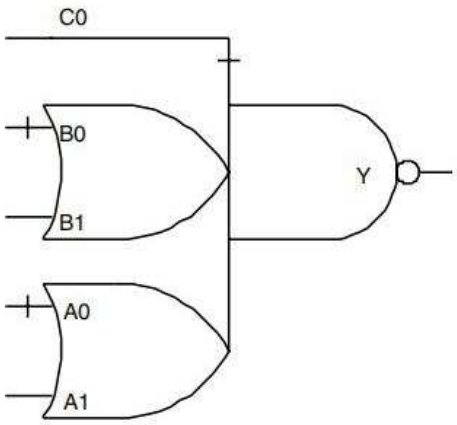
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7L	(A0 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

OAI221X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1H7L	0.00084	0.00073	0.00089	0.00082	0.00089	0.02922

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1H7L	0.00000	0.80811	1.53435

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7L	A0->Y (FR)	0.03995	0.19254	0.64170
	A1->Y (FR)	0.04092	0.19179	0.63077
	B0->Y (FR)	0.03439	0.18434	0.63370
	B1->Y (FR)	0.03635	0.18462	0.62474
	C0->Y (FR)	0.01591	0.11228	0.44872

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7L	A0->Y (RF)	0.03328	0.13982	0.46572
	A1->Y (RF)	0.03475	0.14233	0.46782
	B0->Y (RF)	0.03030	0.14287	0.50545
	B1->Y (RF)	0.03234	0.14579	0.50714
	C0->Y (RF)	0.02631	0.13961	0.50697

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7L	A0	0.00167	0.00182	0.00260
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00016	0.00016	0.00016
	A0	0.00007	0.00021	0.00099
	A1	0.00179	0.00191	0.00252
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00016	0.00016	0.00016
	A1	0.00002	0.00012	0.00073
	B0	0.00137	0.00151	0.00231
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00008	0.00008	0.00010
	B0	0.00004	0.00021	0.00104
	B1	0.00151	0.00162	0.00224
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00008	0.00008	0.00008
	B1	0.00005	0.00016	0.00081
	C0	0.00116	0.00136	0.00245
	C0	-0.00007	-0.00006	-0.00006
	C0	0.00001	0.00002	0.00006
	C0	-0.00005	0.00018	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7L	A0	-0.00010	-0.00001	0.00056
	A0	0.00010	0.00010	0.00010
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00155	0.00164	0.00216
	A1	-0.00009	-0.00002	0.00046
	A1	0.00014	0.00014	0.00014
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00172	0.00179	0.00224
	B0	-0.00010	0.00000	0.00067
	B0	0.00010	0.00010	0.00011
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00120	0.00129	0.00189
	B1	-0.00010	-0.00001	0.00056
	B1	0.00014	0.00014	0.00014
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00133	0.00142	0.00194
	C0	-0.00010	0.00008	0.00117
	C0	0.00014	0.00014	0.00014
	C0	-0.00002	-0.00002	0.00000
	C0	0.00107	0.00122	0.00212

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B0 * C0 * !Y)**	-0.00011	-0.00011	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00030
	(A0 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B0 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00004	0.00005	0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B1 * !C0 * Y)	0.00019	0.00020	0.00022
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	0.00019	0.00020	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * B1 * C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B0 * C0 * !Y)**	-0.00011	-0.00011	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7L	**(A0 * B0 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00027	-0.00027
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * Y)	0.00016	0.00017	0.00019
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	0.00016	0.00017	0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7L	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C0 falling (conditional):

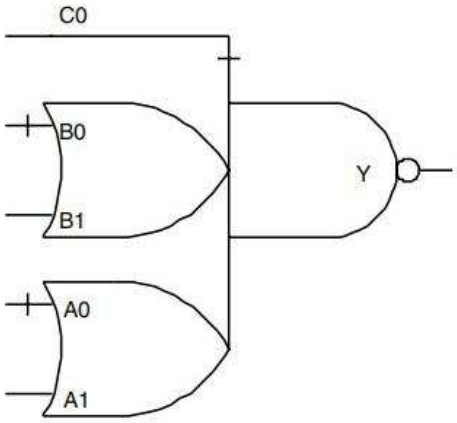
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7L	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

OAI221X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1P4H7L	0.00093	0.00081	0.00091	0.00088	0.00098	0.03342

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1P4H7L	0.00000	0.89438	1.70914

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7L	A0->Y (FR)	0.03792	0.19131	0.64342
	A1->Y (FR)	0.03906	0.19069	0.63263
	B0->Y (FR)	0.03167	0.18239	0.63524
	B1->Y (FR)	0.03376	0.18279	0.62636
	C0->Y (FR)	0.01481	0.11130	0.44973

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7L	A0->Y (RF)	0.03143	0.13728	0.46299
	A1->Y (RF)	0.03289	0.13985	0.46508
	B0->Y (RF)	0.02794	0.13988	0.50348
	B1->Y (RF)	0.02998	0.14280	0.50436
	C0->Y (RF)	0.02427	0.13699	0.50447

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7L	A0	0.00183	0.00200	0.00289
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00018	0.00019	0.00019
	A0	0.00005	0.00022	0.00110
	A1	0.00199	0.00211	0.00280
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00018	0.00019	0.00019
	A1	0.00002	0.00013	0.00083
	B0	0.00145	0.00161	0.00253
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00009	0.00009	0.00010
	B0	0.00004	0.00022	0.00117
	B1	0.00163	0.00175	0.00247
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00009	0.00009	0.00010
	B1	0.00004	0.00017	0.00092
	C0	0.00126	0.00148	0.00272
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00001	0.00002	0.00004
	C0	-0.00008	0.00018	0.00156

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7L	A0	-0.00012	-0.00001	0.00065
	A0	0.00012	0.00012	0.00012
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00171	0.00181	0.00241
	A1	-0.00011	-0.00003	0.00052
	A1	0.00017	0.00017	0.00017
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00188	0.00197	0.00248
	B0	-0.00010	0.00002	0.00079
	B0	0.00012	0.00012	0.00012
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00130	0.00140	0.00210
	B1	-0.00011	-0.00001	0.00065
	B1	0.00017	0.00017	0.00017
	B1	-0.00010	-0.00009	-0.00009
	B1	0.00143	0.00155	0.00215
	C0	-0.00011	0.00010	0.00134
	C0	0.00017	0.00017	0.00017
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00119	0.00135	0.00238

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B0 * C0 * !Y)**	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00030	0.00032
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00029	0.00030	0.00031
	(A0 * !B0 * !B1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B0 * C0 * !Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * !C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B1 * !C0 * Y)	0.00019	0.00020	0.00022
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	0.00019	0.00020	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * B1 * C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B0 * C0 * !Y)**	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7L	**(A0 * B0 * C0 * !Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * Y)	0.00018	0.00019	0.00021
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00015
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * Y)	0.00018	0.00019	0.00021
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !A1 * B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7L	(A0 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

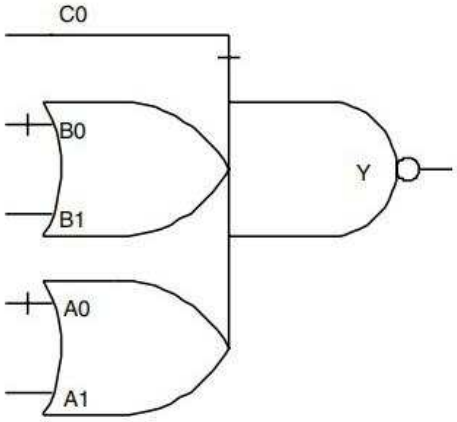
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7L	(A0 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

OAI221X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X2H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X2H7L	0.00104	0.00090	0.00109	0.00099	0.00110	0.03944

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X2H7L	0.00000	1.04231	2.00367

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7L	A0->Y (FR)	0.03600	0.18991	0.64404
	A1->Y (FR)	0.03694	0.18914	0.63321
	B0->Y (FR)	0.03035	0.18156	0.63741
	B1->Y (FR)	0.03193	0.18145	0.62640
	C0->Y (FR)	0.01411	0.11066	0.45082

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7L	A0->Y (RF)	0.02925	0.13309	0.45532
	A1->Y (RF)	0.03070	0.13558	0.45636
	B0->Y (RF)	0.02649	0.13643	0.49573
	B1->Y (RF)	0.02798	0.13888	0.49734
	C0->Y (RF)	0.02287	0.13371	0.49861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7L	A0	0.00208	0.00228	0.00335
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00022	0.00022	0.00023
	A0	0.00002	0.00022	0.00128
	A1	0.00226	0.00241	0.00324
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00022	0.00023	0.00023
	A1	-0.00002	0.00012	0.00095
	B0	0.00165	0.00187	0.00296
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00011	0.00011	0.00012
	B0	-0.00001	0.00021	0.00133
	B1	0.00186	0.00201	0.00287
	B1	-0.00015	-0.00015	-0.00014
	B1	0.00011	0.00011	0.00012
	B1	-0.00000	0.00015	0.00105
	C0	0.00147	0.00173	0.00321
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00002	0.00003	0.00005
	C0	-0.00011	0.00021	0.00186

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7L	A0	-0.00014	-0.00001	0.00079
	A0	0.00013	0.00014	0.00015
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00199	0.00210	0.00284
	A1	-0.00013	-0.00003	0.00064
	A1	0.00020	0.00020	0.00020
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00217	0.00228	0.00290
	B0	-0.00013	0.00002	0.00095
	B0	0.00014	0.00015	0.00015
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00154	0.00166	0.00250
	B1	-0.00013	-0.00001	0.00078
	B1	0.00020	0.00020	0.00020
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00169	0.00181	0.00253
	C0	-0.00013	0.00011	0.00159
	C0	0.00020	0.00020	0.00020
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00136	0.00158	0.00280

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00038	0.00038	0.00038
	(A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00038	-0.00038	-0.00037
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00038	-0.00038	-0.00037
	(A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !C0 * Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00023	-0.00019
	(!A1 * !B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B0 * C0 * !Y)**	-0.00016	-0.00015	-0.00013
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00032	0.00033	0.00034
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00032	0.00033	0.00035
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B0 * C0 * !Y)**	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00029	-0.00027	-0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00028	-0.00026
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00041	0.00041	0.00041
	(A0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(A0 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00040	0.00041	0.00041
	(!A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(A0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B1 * !C0 * Y)	0.00025	0.00026	0.00028
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00022
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(!A0 * A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00026	0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00026	-0.00024	-0.00021
	(!A0 * !A1 * B1 * C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B0 * C0 * !Y)**	-0.00016	-0.00015	-0.00013
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00032	0.00033	0.00034
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00032	0.00033	0.00034
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7L	**(A0 * B0 * C0 * !Y)**	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !C0 * Y)	0.00021	0.00022	0.00024
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00022	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * B0 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7L	(A0 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

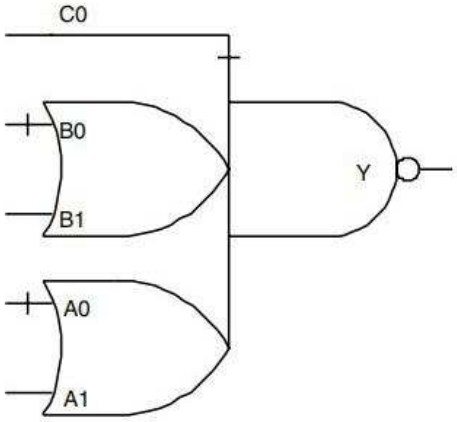
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7L	(A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00007	-0.00007

OAI221X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X3H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X3H7L	0.00170	0.00162	0.00180	0.00172	0.00166	0.06050

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X3H7L	0.00000	1.68485	3.21540

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7L	A0->Y (FR)	0.03553	0.18857	0.64045
	A1->Y (FR)	0.03877	0.19004	0.63116
	B0->Y (FR)	0.02956	0.18023	0.63441
	B1->Y (FR)	0.03326	0.18186	0.62449
	C0->Y (FR)	0.01330	0.10862	0.44699

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7L	A0->Y (RF)	0.03050	0.13591	0.45950
	A1->Y (RF)	0.03356	0.14022	0.46331
	B0->Y (RF)	0.02717	0.13820	0.49865
	B1->Y (RF)	0.03016	0.14264	0.50184
	C0->Y (RF)	0.02322	0.13600	0.50326

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7L	A0	0.00361	0.00393	0.00561
	A0	-0.00014	-0.00013	-0.00013
	A0	0.00034	0.00034	0.00035
	A0	0.00012	0.00043	0.00209
	A1	0.00414	0.00434	0.00558
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00034	0.00034	0.00035
	A1	0.00020	0.00039	0.00163
	B0	0.00287	0.00318	0.00491
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00017	0.00017	0.00017
	B0	0.00002	0.00035	0.00205
	B1	0.00336	0.00359	0.00490
	B1	-0.00022	-0.00021	0.00000
	B1	0.00017	0.00017	0.00023
	B1	0.00015	0.00038	0.00168
	C0	0.00260	0.00303	0.00537
	C0	-0.00013	-0.00013	-0.00013
	C0	0.00003	0.00004	0.00009
	C0	-0.00022	0.00027	0.00295

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7L	A0	-0.00015	0.00005	0.00127
	A0	0.00021	0.00022	0.00022
	A0	-0.00034	-0.00033	-0.00033
	A0	0.00340	0.00357	0.00470
	A1	-0.00013	0.00002	0.00099
	A1	0.00030	0.00030	0.00030
	A1	-0.00034	-0.00033	-0.00033
	A1	0.00374	0.00388	0.00480
	B0	-0.00019	0.00005	0.00154
	B0	0.00020	0.00022	0.00022
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00266	0.00288	0.00418
	B1	-0.00014	0.00005	0.00121
	B1	0.00030	0.00030	0.00030
	B1	-0.00017	-0.00017	-0.00017
	B1	0.00291	0.00312	0.00422
	C0	-0.00020	0.00020	0.00263
	C0	0.00030	0.00030	0.00030
	C0	-0.00004	-0.00004	-0.00001
	C0	0.00230	0.00262	0.00456

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00067	0.00068	0.00068
	(A1 * B0 * !C0 * Y)	-0.00035	-0.00032	-0.00028
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00049	0.00049	0.00050
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00068	0.00068	0.00068
	(A1 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00033	-0.00029
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00049	0.00049	0.00050
	(A1 * !B0 * !B1 * C0 * Y)	-0.00035	-0.00032	-0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00049	0.00049	0.00050
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00035	-0.00033	-0.00029
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00049	0.00049	0.00050
	(!A1 * B0 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	0.00044	0.00044	0.00044
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00044	0.00045	0.00045
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00046	0.00046	0.00047
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00068	-0.00068	-0.00067
	(A1 * B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00049	-0.00049	-0.00048
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00068	-0.00068	-0.00067
	(A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00049	-0.00048	-0.00048
	(A1 * !B0 * !B1 * C0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00048	-0.00047
	(A1 * !B0 * !B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * !C0 * Y)	0.00041	0.00041	0.00042
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00042	-0.00039	-0.00033
	(!A1 * !B0 * B1 * !C0 * Y)	0.00041	0.00041	0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00039	-0.00034
	(!A1 * !B0 * !B1 * C0 * Y)	0.00041	0.00041	0.00042
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00040	0.00040	0.00040
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00040	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B0 * C0 * !Y)**	-0.00029	-0.00026	-0.00021
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00054	0.00057	0.00063
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00026	-0.00023
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00053	0.00054	0.00054
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00026	-0.00021
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00054	0.00056	0.00060
	(A0 * !B0 * !B1 * Y)	-0.00029	-0.00027	-0.00024
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00053	0.00054	0.00055
	(!A0 * B0 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00049	0.00049	0.00049
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B0 * C0 * !Y)**	0.00031	0.00031	0.00031
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00053	-0.00053	-0.00053
	(A0 * !B0 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A0 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * B0 * !C0 * Y)	0.00035	0.00036	0.00037
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00047	-0.00043	-0.00038
	(!A0 * !B0 * B1 * !C0 * Y)	0.00035	0.00036	0.00037
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00047	-0.00044	-0.00038
	(!A0 * !B0 * !B1 * C0 * Y)	0.00035	0.00035	0.00036
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00047	-0.00045	-0.00041
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00048	-0.00045	-0.00041

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(A0 * B1 * !C0 * Y)	-0.00038	-0.00035	-0.00031
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00054	0.00055	0.00055
	(A0 * !B1 * !C0 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00051	0.00052	0.00052
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(!A0 * A1 * B1 * !C0 * Y)	-0.00038	-0.00035	-0.00032
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00054	0.00054	0.00055
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00043	-0.00043	-0.00042
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00051	0.00051	0.00052
	(!A0 * !A1 * B1 * C0 * Y)	-0.00039	-0.00036	-0.00032
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00039	-0.00036	-0.00032
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00077	-0.00076	-0.00076
	(A0 * B1 * !C0 * Y)	0.00037	0.00037	0.00038
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00054	-0.00054	-0.00054
	(A0 * !B1 * !C0 * Y)	0.00043	0.00045	0.00048
	(A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00077	-0.00076	-0.00075
	(!A0 * A1 * B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * A1 * !B1 * !C0 * Y)	0.00043	0.00045	0.00049
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * !A1 * B1 * C0 * Y)	0.00039	0.00039	0.00040
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	0.00039	0.00039	0.00040
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B0 * C0 * !Y)**	-0.00026	-0.00023	-0.00019
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00062	0.00064	0.00066
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00032	-0.00030	-0.00027
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(A0 * !B0 * !C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00023	-0.00019
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00062	0.00064	0.00066
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A0 * !A1 * B0 * C0 * Y)	-0.00033	-0.00031	-0.00028
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00033	-0.00031	-0.00028
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7L	**(A0 * B0 * C0 * !Y)**	0.00027	0.00027	0.00027
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00056	-0.00055	-0.00055
	(A0 * !B0 * !C0 * Y)	0.00037	0.00039	0.00043
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00051	-0.00048	-0.00042
	(!A0 * A1 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A0 * A1 * !B0 * !C0 * Y)	0.00037	0.00039	0.00043
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00051	-0.00047	-0.00041
	(!A0 * !A1 * B0 * C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00038	0.00039	0.00039
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00017	-0.00016	-0.00016

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7L	(A0 * !B0 * !B1 * Y)	-0.00049	-0.00048	-0.00047
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00049	-0.00048	-0.00047
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B0 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

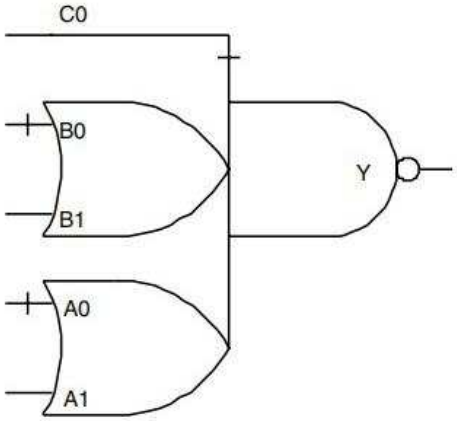
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7L	(A0 * !B0 * !B1 * Y)	0.00048	0.00049	0.00049
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00003	-0.00004
	(A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * Y)	0.00048	0.00048	0.00049
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	0.00048	0.00048	0.00049
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014

OAI221X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X4H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X4H7L	0.00198	0.00189	0.00206	0.00197	0.00195	0.07815

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X4H7L	0.00000	2.08462	4.00733

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7L	A0->Y (FR)	0.03182	0.18598	0.64280
	A1->Y (FR)	0.03461	0.18681	0.63247
	B0->Y (FR)	0.02630	0.17828	0.63848
	B1->Y (FR)	0.02979	0.17961	0.62722
	C0->Y (FR)	0.01203	0.10751	0.44817

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7L	A0->Y (RF)	0.02714	0.13137	0.45470
	A1->Y (RF)	0.02983	0.13527	0.45809
	B0->Y (RF)	0.02394	0.13401	0.49575
	B1->Y (RF)	0.02680	0.13829	0.49832
	C0->Y (RF)	0.02079	0.13265	0.49992

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7L	A0	0.00415	0.00459	0.00678
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00045	0.00045	0.00045
	A0	0.00002	0.00041	0.00258
	A1	0.00477	0.00504	0.00669
	A1	-0.00029	-0.00029	-0.00029
	A1	0.00045	0.00045	0.00045
	A1	0.00005	0.00031	0.00195
	B0	0.00331	0.00371	0.00595
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00021	0.00023	0.00028
	B0	-0.00016	0.00027	0.00259
	B1	0.00390	0.00419	0.00591
	B1	-0.00029	-0.00029	-0.00029
	B1	0.00017	0.00022	0.00023
	B1	-0.00003	0.00028	0.00207
	C0	0.00303	0.00357	0.00661
	C0	-0.00019	-0.00019	-0.00016
	C0	0.00004	0.00006	0.00009
	C0	-0.00031	0.00034	0.00378

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7L	A0	-0.00027	0.00000	0.00170
	A0	0.00028	0.00029	0.00030
	A0	-0.00044	-0.00044	-0.00040
	A0	0.00403	0.00427	0.00578
	A1	-0.00021	-0.00001	0.00130
	A1	0.00040	0.00040	0.00040
	A1	-0.00044	-0.00044	-0.00043
	A1	0.00448	0.00466	0.00590
	B0	-0.00026	0.00005	0.00202
	B0	0.00028	0.00029	0.00029
	B0	-0.00023	-0.00022	-0.00017
	B0	0.00315	0.00340	0.00514
	B1	-0.00027	-0.00002	0.00158
	B1	0.00040	0.00040	0.00040
	B1	-0.00023	-0.00022	-0.00017
	B1	0.00343	0.00373	0.00518
	C0	-0.00026	0.00026	0.00338
	C0	0.00039	0.00040	0.00040
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00272	0.00315	0.00567

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00076	0.00077	0.00077
	(A1 * B0 * !C0 * Y)	-0.00043	-0.00040	-0.00035
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00002
	(A1 * B0 * !C0 * Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00077	0.00077	0.00077
	(A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00036
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * !B1 * C0 * Y)	-0.00043	-0.00040	-0.00035
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00040	-0.00036
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00055	0.00055	0.00056
	(!A1 * B0 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00052	0.00053	0.00054
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00077	-0.00077	-0.00076
	(A1 * B0 * !C0 * Y)	0.00042	0.00043	0.00043
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * !C0 * Y)	-0.00055	-0.00055	-0.00055
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00077	-0.00077	-0.00076
	(A1 * !B0 * B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00055	-0.00055	-0.00055
	(A1 * !B0 * !B1 * C0 * Y)	0.00042	0.00043	0.00043
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00056	-0.00055	-0.00054
	(A1 * !B0 * !B1 * !C0 * Y)	0.00042	0.00043	0.00043
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00055	-0.00055	-0.00054
	(!A1 * B0 * !C0 * Y)	0.00049	0.00050	0.00051
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00048	-0.00044	-0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	0.00050	0.00050	0.00051
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00044	-0.00039
	(!A1 * !B0 * !B1 * C0 * Y)	0.00049	0.00050	0.00051
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00049	0.00049	0.00049
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B0 * C0 * !Y)**	-0.00036	-0.00032	-0.00027
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00061	0.00064	0.00068
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00033	-0.00030
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00060	0.00061	0.00061
	(A0 * !B0 * B1 * C0 * !Y)	-0.00036	-0.00032	-0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00061	0.00064	0.00068
	(A0 * !B0 * !B1 * Y)	-0.00036	-0.00034	-0.00030
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00060	0.00061	0.00061
	(!A0 * B0 * !C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00058	0.00058	0.00059
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00053	0.00054	0.00054

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B0 * C0 * !Y)**	0.00039	0.00039	0.00040
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00040
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * !B1 * Y)	0.00036	0.00036	0.00037
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00060	-0.00060	-0.00060
	(!A0 * B0 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00053	-0.00049	-0.00043
	(!A0 * !B0 * B1 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00053	-0.00049	-0.00043
	(!A0 * !B0 * !B1 * C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00054	-0.00051	-0.00046
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00054	-0.00051	-0.00046

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00086	0.00086	0.00086
	(A0 * B1 * !C0 * Y)	-0.00044	-0.00041	-0.00037
	(A0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00061	0.00062	0.00063
	(A0 * !B1 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00058	0.00059	0.00059
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00085	0.00086	0.00086
	(!A0 * A1 * B1 * !C0 * Y)	-0.00045	-0.00042	-0.00037
	(!A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00061	0.00062	0.00063
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00051	-0.00051	-0.00051
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00059	0.00059	0.00059
	(!A0 * !A1 * B1 * C0 * Y)	-0.00045	-0.00042	-0.00038
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * Y)	0.00013	0.00014	0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00046	-0.00043	-0.00038
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	0.00013	0.00014	0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00086	-0.00086	-0.00085
	(A0 * B1 * !C0 * Y)	0.00044	0.00044	0.00044
	(A0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00061	-0.00061	-0.00060
	(A0 * !B1 * !C0 * Y)	0.00051	0.00054	0.00057
	(A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00055	-0.00052	-0.00046
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00086	-0.00085	-0.00084
	(!A0 * A1 * B1 * !C0 * Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00061	-0.00061	-0.00061
	(!A0 * A1 * !B1 * !C0 * Y)	0.00051	0.00054	0.00059
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00055	-0.00052	-0.00047
	(!A0 * !A1 * B1 * C0 * Y)	0.00045	0.00046	0.00047
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B0 * C0 * !Y)**	-0.00033	-0.00030	-0.00025
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00069	0.00070	0.00073
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00039	-0.00036	-0.00032
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00062	0.00063	0.00063
	(A0 * !B0 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00059	0.00060	0.00060
	(!A0 * A1 * B0 * C0 * !Y)	-0.00033	-0.00030	-0.00025
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00069	0.00070	0.00073
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00060	0.00060	0.00060
	(!A0 * !A1 * B0 * C0 * Y)	-0.00040	-0.00038	-0.00034
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * C0 * Y)	0.00016	0.00016	0.00018
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00040	-0.00038	-0.00033
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00046	-0.00045	-0.00045
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7L	**(A0 * B0 * C0 * !Y)**	0.00035	0.00035	0.00035
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00062	-0.00062	-0.00062
	(A0 * !B0 * !C0 * Y)	0.00045	0.00048	0.00052
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00056	-0.00053	-0.00048
	(!A0 * A1 * B0 * C0 * !Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00068	-0.00068	-0.00067
	(!A0 * A1 * !B0 * !C0 * Y)	0.00045	0.00048	0.00053
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00056	-0.00053	-0.00047
	(!A0 * !A1 * B0 * C0 * Y)	0.00040	0.00041	0.00042
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00046	0.00047	0.00048
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7L	(A0 * !B0 * !B1 * Y)	-0.00059	-0.00059	-0.00058
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00060	-0.00059	-0.00058
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

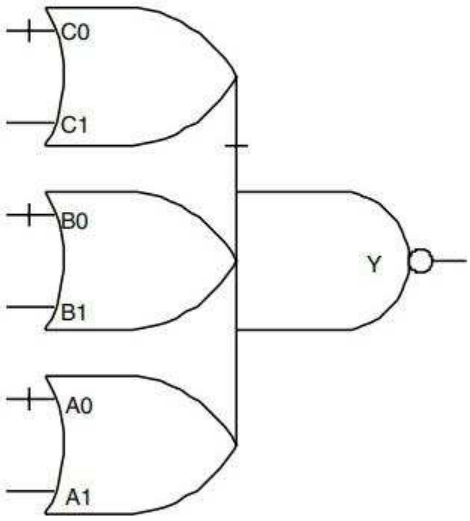
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7L	(A0 * !B0 * !B1 * Y)	0.00059	0.00060	0.00060
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * Y)	0.00059	0.00059	0.00060
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * Y)	0.00059	0.00059	0.00060
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * B1 * Y)	0.00059	0.00059	0.00060
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014

OAI222X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P5H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P5H7L	0.00064	0.00071	0.00075	0.00072	0.00067	0.00077	0.02112

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P5H7L	0.00000	0.82423	2.19049

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7L	A0->Y (FR)	0.05541	0.20197	0.62550
	A1->Y (FR)	0.05417	0.20280	0.63797
	B0->Y (FR)	0.04883	0.19346	0.61748
	B1->Y (FR)	0.04612	0.19296	0.62734
	C0->Y (FR)	0.03628	0.17979	0.60583
	C1->Y (FR)	0.03550	0.18101	0.61717

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7L	A0->Y (RF)	0.04585	0.15276	0.46865
	A1->Y (RF)	0.04427	0.15028	0.46607
	B0->Y (RF)	0.04356	0.15592	0.50608
	B1->Y (RF)	0.04076	0.15215	0.50205
	C0->Y (RF)	0.03306	0.14516	0.50324
	C1->Y (RF)	0.03222	0.14294	0.50109

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7L	A0	0.00176	0.00185	0.00229
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00015	0.00015	0.00016
	A0	0.00002	0.00010	0.00055
	A1	0.00166	0.00178	0.00235
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00015	0.00015	0.00015
	A1	0.00006	0.00017	0.00075
	B0	0.00152	0.00160	0.00205
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00009	0.00009	0.00010
	B0	0.00003	0.00012	0.00060
	B1	0.00139	0.00150	0.00209
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00009	0.00009	0.00011
	B1	0.00008	0.00020	0.00081
	C0	0.00116	0.00125	0.00180
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00000	0.00003	0.00006
	C0	-0.00002	0.00009	0.00070
	C1	0.00107	0.00119	0.00185
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00002	0.00003	0.00009
	C1	0.00000	0.00015	0.00087

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7L	A0	-0.00007	-0.00001	0.00034
	A0	0.00013	0.00013	0.00013
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00170	0.00176	0.00206
	A1	-0.00007	-0.00001	0.00040
	A1	0.00010	0.00010	0.00010
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00158	0.00163	0.00198
	B0	-0.00008	-0.00001	0.00043
	B0	0.00013	0.00013	0.00013
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00139	0.00146	0.00182
	B1	-0.00007	0.00001	0.00051
	B1	0.00010	0.00010	0.00010
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00124	0.00131	0.00171
	C0	-0.00007	0.00005	0.00068
	C0	0.00013	0.00013	0.00013
	C0	-0.00003	-0.00003	0.00000
	C0	0.00105	0.00116	0.00171
	C1	-0.00007	0.00005	0.00074
	C1	0.00010	0.00010	0.00010
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00097	0.00106	0.00164

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00026
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00012
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00013
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00013
	(!A0 * !B0 * !B1 * C1 * Y)	0.00013	0.00013	0.00014
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00019
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !A1 * B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C1 * !Y)**	0.00009	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7L	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

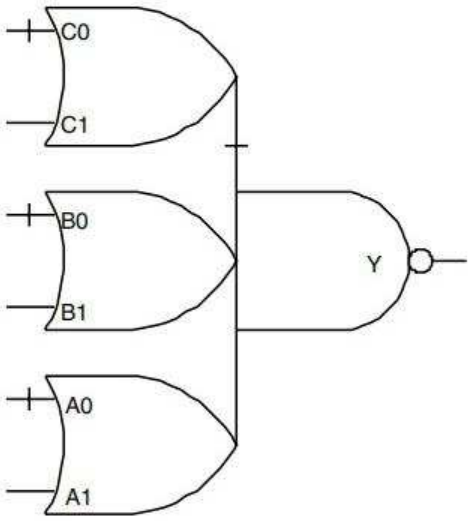
OAI222X0P5H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P7H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P7H7L	0.00068	0.00079	0.00076	0.00080	0.00073	0.00088	0.02398

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P7H7L	0.00000	0.88143	2.33570

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7L	A0->Y (FR)	0.05312	0.20073	0.62748
	A1->Y (FR)	0.05270	0.20215	0.63952
	B0->Y (FR)	0.04662	0.19240	0.62036
	B1->Y (FR)	0.04460	0.19242	0.62985
	C0->Y (FR)	0.03420	0.17846	0.60724
	C1->Y (FR)	0.03345	0.17963	0.61924

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7L	A0->Y (RF)	0.04387	0.15009	0.46564
	A1->Y (RF)	0.04290	0.14818	0.46397
	B0->Y (RF)	0.04110	0.15317	0.50432
	B1->Y (RF)	0.03885	0.14994	0.49976
	C0->Y (RF)	0.03118	0.14264	0.50101
	C1->Y (RF)	0.03014	0.14036	0.49882

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7L	A0	0.00194	0.00204	0.00254
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00018	0.00018	0.00018
	A0	0.00006	0.00014	0.00064
	A1	0.00186	0.00198	0.00261
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00017	0.00018	0.00018
	A1	0.00010	0.00022	0.00086
	B0	0.00168	0.00177	0.00227
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00011	0.00011	0.00011
	B0	0.00008	0.00017	0.00071
	B1	0.00155	0.00167	0.00232
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00011	0.00011	0.00011
	B1	0.00011	0.00024	0.00092
	C0	0.00126	0.00136	0.00198
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00002	0.00003	0.00005
	C0	-0.00006	0.00007	0.00075
	C1	0.00116	0.00130	0.00203
	C1	-0.00005	-0.00005	-0.00005
	C1	0.00002	0.00003	0.00005
	C1	-0.00001	0.00015	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7L	A0	-0.00008	-0.00002	0.00037
	A0	0.00015	0.00015	0.00015
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00184	0.00190	0.00224
	A1	-0.00008	-0.00001	0.00044
	A1	0.00012	0.00012	0.00012
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00172	0.00178	0.00216
	B0	-0.00008	-0.00001	0.00047
	B0	0.00015	0.00015	0.00016
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00150	0.00157	0.00197
	B1	-0.00008	0.00001	0.00056
	B1	0.00011	0.00012	0.00012
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00138	0.00144	0.00188
	C0	-0.00007	0.00005	0.00075
	C0	0.00015	0.00015	0.00015
	C0	-0.00003	-0.00003	0.00000
	C0	0.00117	0.00130	0.00190
	C1	-0.00007	0.00006	0.00083
	C1	0.00012	0.00012	0.00012
	C1	-0.00004	-0.00003	-0.00001
	C1	0.00107	0.00118	0.00182

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00029
	(A1 * !B0 * !B1 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00001	0.00002	0.00001
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00027	0.00028	0.00029
	(A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00029
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00002	-0.00001
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00002	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00021	0.00022	0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00016	0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00016
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00016	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00002	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

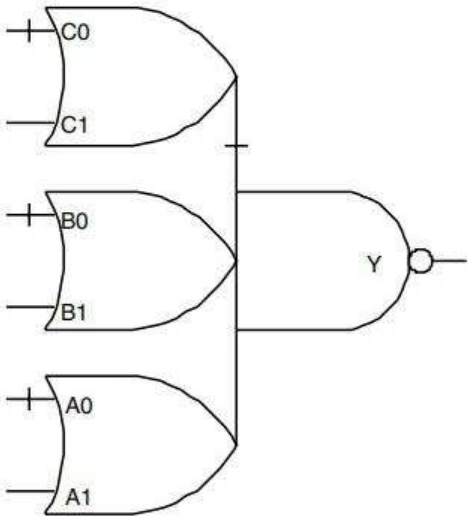
OAI222X0P7H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1H7L	0.00076	0.00083	0.00084	0.00084	0.00081	0.00089	0.02867

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1H7L	0.00000	0.97625	2.57873

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7L	A0->Y (FR)	0.04713	0.19621	0.63016
	A1->Y (FR)	0.04571	0.19667	0.63972
	B0->Y (FR)	0.04018	0.18780	0.62278
	B1->Y (FR)	0.03788	0.18748	0.63147
	C0->Y (FR)	0.03135	0.17707	0.61241
	C1->Y (FR)	0.02996	0.17743	0.62255

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7L	A0->Y (RF)	0.04010	0.14777	0.46904
	A1->Y (RF)	0.03833	0.14505	0.46613
	B0->Y (RF)	0.03766	0.15107	0.50748
	B1->Y (RF)	0.03514	0.14751	0.50409
	C0->Y (RF)	0.02941	0.14256	0.50662
	C1->Y (RF)	0.02791	0.13970	0.50381

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7L	A0	0.00211	0.00222	0.00281
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00021	0.00021	0.00021
	A0	-0.00001	0.00009	0.00068
	A1	0.00197	0.00212	0.00288
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00021	0.00021	0.00021
	A1	0.00003	0.00017	0.00094
	B0	0.00182	0.00192	0.00252
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00013	0.00013	0.00013
	B0	0.00001	0.00013	0.00076
	B1	0.00164	0.00180	0.00257
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00012	0.00013	0.00014
	B1	0.00006	0.00021	0.00102
	C0	0.00143	0.00155	0.00226
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00003	0.00004	0.00006
	C0	-0.00003	0.00011	0.00091
	C1	0.00130	0.00146	0.00233
	C1	-0.00007	-0.00006	-0.00006
	C1	0.00003	0.00004	0.00006
	C1	-0.00000	0.00018	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7L	A0	-0.00009	-0.00002	0.00045
	A0	0.00018	0.00018	0.00018
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00206	0.00214	0.00254
	A1	-0.00009	-0.00001	0.00055
	A1	0.00013	0.00014	0.00015
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00190	0.00198	0.00245
	B0	-0.00010	-0.00001	0.00057
	B0	0.00018	0.00018	0.00018
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00167	0.00176	0.00223
	B1	-0.00009	0.00002	0.00068
	B1	0.00013	0.00014	0.00014
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00151	0.00159	0.00213
	C0	-0.00009	0.00005	0.00086
	C0	0.00018	0.00018	0.00018
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00131	0.00144	0.00214
	C1	-0.00009	0.00006	0.00097
	C1	0.00014	0.00014	0.00015
	C1	-0.00004	-0.00004	-0.00002
	C1	0.00117	0.00129	0.00206

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00028	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00028	0.00029	0.00030
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00029	0.00030
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00028	0.00029	0.00030
	(A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00015
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A1 * !B0 * !B1 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00031	0.00032	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00032	0.00033
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00020
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00022
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00021
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00019	0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00019	0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00028	0.00029	0.00030
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7L	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

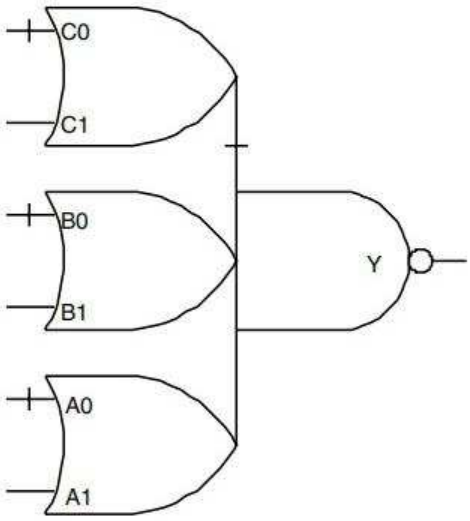
OAI222X1H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004

OAI222X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1P4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1P4H7L	0.00080	0.00091	0.00089	0.00091	0.00086	0.00102	0.03272

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1P4H7L	0.00000	1.08086	2.85027

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7L	A0->Y (FR)	0.04391	0.19438	0.63078
	A1->Y (FR)	0.04294	0.19519	0.64160
	B0->Y (FR)	0.03995	0.18773	0.62469
	B1->Y (FR)	0.03774	0.18734	0.63410
	C0->Y (FR)	0.02905	0.17538	0.61430
	C1->Y (FR)	0.02793	0.17600	0.62429

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7L	A0->Y (RF)	0.03875	0.14558	0.46598
	A1->Y (RF)	0.03724	0.14311	0.46391
	B0->Y (RF)	0.03606	0.14900	0.50523
	B1->Y (RF)	0.03368	0.14551	0.50193
	C0->Y (RF)	0.02755	0.13993	0.50286
	C1->Y (RF)	0.02621	0.13733	0.50175

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7L	A0	0.00238	0.00250	0.00316
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00024	0.00024	0.00024
	A0	0.00005	0.00016	0.00083
	A1	0.00222	0.00239	0.00325
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00024	0.00024	0.00024
	A1	0.00008	0.00025	0.00111
	B0	0.00204	0.00216	0.00284
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00013	0.00014	0.00016
	B0	0.00006	0.00019	0.00090
	B1	0.00185	0.00202	0.00290
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00014	0.00015	0.00015
	B1	0.00010	0.00028	0.00119
	C0	0.00154	0.00168	0.00251
	C0	-0.00012	-0.00012	-0.00012
	C0	0.00000	0.00005	0.00008
	C0	-0.00008	0.00009	0.00101
	C1	0.00140	0.00158	0.00258
	C1	-0.00008	-0.00007	-0.00007
	C1	0.00004	0.00005	0.00007
	C1	-0.00004	0.00017	0.00128

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7L	A0	-0.00010	-0.00003	0.00050
	A0	0.00021	0.00021	0.00022
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00225	0.00232	0.00277
	A1	-0.00011	-0.00001	0.00062
	A1	0.00016	0.00017	0.00018
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00208	0.00217	0.00269
	B0	-0.00011	-0.00001	0.00063
	B0	0.00021	0.00021	0.00021
	B0	-0.00015	-0.00014	-0.00013
	B0	0.00184	0.00193	0.00246
	B1	-0.00010	0.00001	0.00076
	B1	0.00017	0.00017	0.00018
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00165	0.00175	0.00235
	C0	-0.00010	0.00006	0.00098
	C0	0.00021	0.00021	0.00021
	C0	-0.00005	-0.00005	0.00000
	C0	0.00144	0.00158	0.00238
	C1	-0.00009	0.00008	0.00111
	C1	0.00017	0.00017	0.00017
	C1	-0.00005	-0.00005	-0.00003
	C1	0.00130	0.00144	0.00230

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * !B0 * !B1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00033	0.00034	0.00034
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00033	0.00034	0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00022	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00021
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00022
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00022
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00020	0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00020	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00032	0.00033
	(A1 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00032	0.00033
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00027	-0.00026
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00027	-0.00026
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00028	-0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

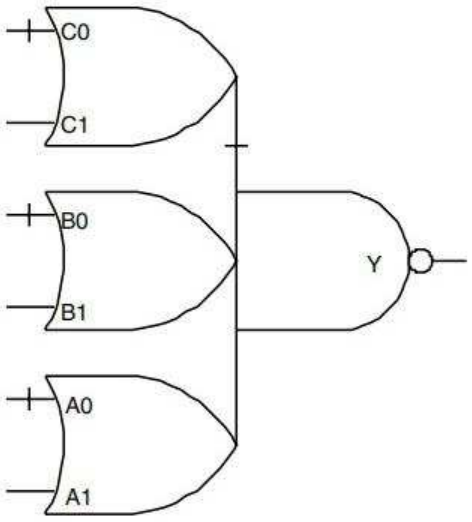
OAI222X1P4H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * !B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004

OAI222X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X2H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X2H7L	0.00089	0.00101	0.00099	0.00102	0.00099	0.00109	0.03870

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X2H7L	0.00000	1.26012	3.31234

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7L	A0->Y (FR)	0.04342	0.19369	0.63274
	A1->Y (FR)	0.03983	0.19336	0.64297
	B0->Y (FR)	0.03597	0.18513	0.62584
	B1->Y (FR)	0.03495	0.18520	0.63509
	C0->Y (FR)	0.02721	0.17433	0.61676
	C1->Y (FR)	0.02568	0.17463	0.62662

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7L	A0->Y (RF)	0.03601	0.14103	0.45875
	A1->Y (RF)	0.03434	0.13844	0.45640
	B0->Y (RF)	0.03337	0.14449	0.49785
	B1->Y (RF)	0.03098	0.14095	0.49482
	C0->Y (RF)	0.02593	0.13670	0.49933
	C1->Y (RF)	0.02420	0.13365	0.49549

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7L	A0	0.00270	0.00283	0.00362
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00029	0.00029	0.00029
	A0	0.00001	0.00015	0.00095
	A1	0.00249	0.00270	0.00373
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00029	0.00029	0.00029
	A1	0.00005	0.00025	0.00128
	B0	0.00229	0.00243	0.00325
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00017	0.00018	0.00018
	B0	0.00002	0.00017	0.00104
	B1	0.00208	0.00227	0.00333
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00017	0.00018	0.00018
	B1	0.00005	0.00027	0.00137
	C0	0.00176	0.00193	0.00292
	C0	-0.00015	-0.00014	-0.00014
	C0	0.00005	0.00006	0.00008
	C0	-0.00010	0.00009	0.00120
	C1	0.00158	0.00179	0.00300
	C1	-0.00009	-0.00009	-0.00008
	C1	0.00005	0.00006	0.00008
	C1	-0.00005	0.00020	0.00153

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7L	A0	-0.00012	-0.00003	0.00062
	A0	0.00025	0.00026	0.00026
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00258	0.00267	0.00321
	A1	-0.00013	-0.00001	0.00077
	A1	0.00020	0.00020	0.00020
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00239	0.00248	0.00313
	B0	-0.00013	-0.00001	0.00077
	B0	0.00025	0.00026	0.00026
	B0	-0.00017	-0.00017	-0.00016
	B0	0.00210	0.00221	0.00285
	B1	-0.00012	0.00002	0.00094
	B1	0.00020	0.00020	0.00020
	B1	-0.00017	-0.00017	-0.00015
	B1	0.00187	0.00200	0.00275
	C0	-0.00012	0.00007	0.00116
	C0	0.00025	0.00026	0.00026
	C0	-0.00006	-0.00006	-0.00004
	C0	0.00163	0.00183	0.00277
	C1	-0.00011	0.00010	0.00133
	C1	0.00020	0.00020	0.00020
	C1	-0.00006	-0.00006	-0.00004
	C1	0.00145	0.00163	0.00267

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00015	-0.00013
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00032	0.00033	0.00034
	(A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00032	0.00033	0.00035
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00033	0.00034
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	0.00017	0.00017	0.00017
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00027	-0.00024
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00027	-0.00024
	(!A1 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00028	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00028	0.00029	0.00029
	(A0 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00029	0.00029
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00028
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B1 * !C0 * !C1 * Y)	0.00021	0.00022	0.00023
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00019
	(!A0 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00014	-0.00013
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00033	0.00034	0.00035
	(A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00014	-0.00012
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00034	0.00034
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00014	-0.00012
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00033	0.00034	0.00034
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00014	-0.00013
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00034	0.00035
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	0.00017	0.00017	0.00017
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00022	0.00025
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00026	-0.00023
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00022	0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00026	-0.00022
	(!A0 * !A1 * B1 * C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * B0 * C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00023	0.00025
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00020
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00023	0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * B0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00015	-0.00013
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00035	0.00036	0.00038
	(A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00036	0.00037
	(A1 * !B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00024
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00014	-0.00013
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00035	0.00036	0.00037
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00014	-0.00012
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00036	0.00037
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C1 * !Y)**	0.00017	0.00017	0.00017
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7L	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(A1 * !B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00029
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

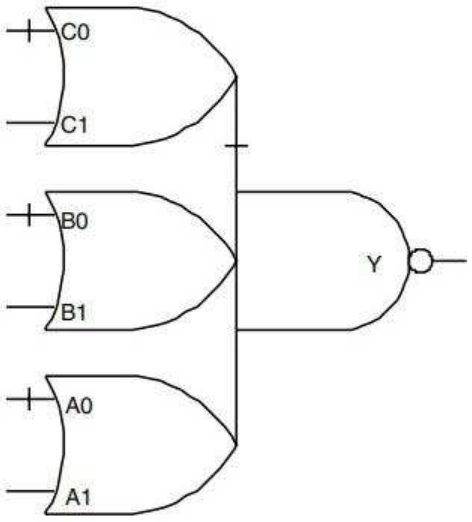
OAI222X2H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A1 * !B0 * !B1 * C0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * C0 * Y)	0.00031	0.00032	0.00032
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X3H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X3H7L	0.00163	0.00171	0.00165	0.00168	0.00165	0.00172	0.05921

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X3H7L	0.00000	2.03583	5.38462

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7L	A0->Y (FR)	0.04232	0.19256	0.62926
	A1->Y (FR)	0.03905	0.19123	0.63744
	B0->Y (FR)	0.03627	0.18394	0.62115
	B1->Y (FR)	0.03311	0.18300	0.62981
	C0->Y (FR)	0.02779	0.17309	0.61169
	C1->Y (FR)	0.02454	0.17162	0.61944

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7L	A0->Y (RF)	0.03911	0.14540	0.46356
	A1->Y (RF)	0.03591	0.14113	0.45921
	B0->Y (RF)	0.03583	0.14835	0.50178
	B1->Y (RF)	0.03339	0.14482	0.49880
	C0->Y (RF)	0.02789	0.13991	0.50084
	C1->Y (RF)	0.02490	0.13548	0.49741

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7L	A0	0.00483	0.00502	0.00622
	A0	-0.00023	-0.00022	-0.00020
	A0	0.00044	0.00044	0.00045
	A0	0.00016	0.00035	0.00155
	A1	0.00427	0.00460	0.00624
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00044	0.00044	0.00045
	A1	0.00010	0.00039	0.00201
	B0	0.00412	0.00434	0.00559
	B0	-0.00022	-0.00022	-0.00021
	B0	0.00025	0.00027	0.00027
	B0	0.00020	0.00042	0.00167
	B1	0.00365	0.00395	0.00562
	B1	-0.00014	-0.00013	-0.00013
	B1	0.00023	0.00026	0.00029
	B1	0.00015	0.00046	0.00211
	C0	0.00329	0.00354	0.00506
	C0	-0.00022	-0.00022	-0.00020
	C0	0.00000	0.00009	0.00013
	C0	-0.00012	0.00017	0.00191
	C1	0.00282	0.00316	0.00506
	C1	-0.00014	-0.00013	-0.00013
	C1	0.00007	0.00009	0.00014
	C1	-0.00016	0.00023	0.00238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7L	A0	-0.00003	0.00011	0.00103
	A0	0.00038	0.00038	0.00039
	A0	-0.00042	-0.00042	-0.00042
	A0	0.00445	0.00457	0.00539
	A1	-0.00004	0.00015	0.00130
	A1	0.00029	0.00030	0.00034
	A1	-0.00042	-0.00042	-0.00042
	A1	0.00409	0.00424	0.00524
	B0	-0.00005	0.00012	0.00123
	B0	0.00038	0.00038	0.00038
	B0	-0.00027	-0.00027	-0.00022
	B0	0.00361	0.00379	0.00477
	B1	-0.00013	0.00011	0.00156
	B1	0.00030	0.00030	0.00030
	B1	-0.00027	-0.00026	-0.00021
	B1	0.00341	0.00357	0.00469
	C0	-0.00006	0.00022	0.00187
	C0	0.00038	0.00038	0.00038
	C0	-0.00009	-0.00009	0.00000
	C0	0.00284	0.00314	0.00460
	C1	-0.00016	0.00017	0.00216
	C1	0.00030	0.00030	0.00033
	C1	-0.00009	-0.00009	0.00000
	C1	0.00252	0.00283	0.00445

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	-0.00029	-0.00026	-0.00021
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00055	0.00057	0.00061
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00026	-0.00021
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00055	0.00057	0.00060
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00026	-0.00023
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00054	0.00055	0.00055
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00026	-0.00021
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00055	0.00057	0.00060
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00029	-0.00026	-0.00021
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00055	0.00057	0.00060
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00027	-0.00024
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00054	0.00055	0.00055
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00051	0.00052	0.00052
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00052	0.00052	0.00052
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00052	0.00052	0.00052
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	0.00031	0.00031	0.00032
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00054	-0.00054	-0.00053
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00054	-0.00054	-0.00053
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00054	-0.00053	-0.00053
	(A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00054	-0.00054	-0.00053
	(!A1 * B1 * !C0 * !C1 * Y)	0.00036	0.00037	0.00038
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00047	-0.00044	-0.00038
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00036	0.00037	0.00039
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00047	-0.00044	-0.00039
	(!A1 * !B0 * !B1 * C1 * Y)	0.00035	0.00036	0.00037
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00048	-0.00045	-0.00041
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00036	0.00037
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00048	-0.00045	-0.00041
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00067	0.00067	0.00067
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00067	0.00067	0.00068
	(A0 * B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00067	0.00067	0.00068
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00067	0.00067	0.00068
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00049	0.00050
	(A0 * !B0 * !B1 * C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00048	0.00049	0.00049
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00033	-0.00029
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00049
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00045	0.00046	0.00046
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00046	0.00046	0.00046
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00046	0.00046	0.00046
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00046	0.00046	0.00047
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00067	-0.00067	-0.00066
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * B1 * !C0 * !C1 * Y)	0.00041	0.00042	0.00043
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00041	-0.00038	-0.00033
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00041	0.00042	0.00043
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00042	-0.00038	-0.00033
	(!A0 * !B0 * !B1 * C1 * Y)	0.00041	0.00041	0.00042
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00041	0.00041	0.00042
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00042	-0.00040	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00057	0.00059	0.00061
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00020
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00057	0.00059	0.00062
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00032	-0.00029	-0.00026
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00053	0.00053	0.00053
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00057	0.00059	0.00061
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00057	0.00059	0.00061
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(!A0 * !A1 * B1 * C1 * Y)	-0.00034	-0.00032	-0.00028
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00034	-0.00032	-0.00029
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00034	-0.00032	-0.00029
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	0.00028	0.00028	0.00028
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * !B1 * !C0 * !C1 * Y)	0.00037	0.00039	0.00042
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00040
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00052	-0.00052	-0.00052
	(A0 * !A1 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00037	0.00039	0.00043
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !A1 * B1 * C1 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00038	0.00039	0.00039
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00038	0.00039	0.00039
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00068	0.00069	0.00069
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00068	0.00069	0.00069
	(A1 * B0 * !C0 * !C1 * Y)	-0.00037	-0.00034	-0.00030
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00047	0.00047	0.00048
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00042	-0.00042	-0.00041
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00046	0.00046	0.00046
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00068	0.00069	0.00069
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00069	0.00069	0.00069
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00038	-0.00035	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00047	0.00047	0.00048
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00045	0.00046	0.00046
	(!A0 * !A1 * B0 * C1 * Y)	-0.00039	-0.00036	-0.00033
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C1 * Y)	0.00012	0.00013	0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00039	-0.00037	-0.00033
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00040	-0.00037	-0.00034
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00013	0.00014
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00069	-0.00068	-0.00066
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00069	-0.00069	-0.00068
	(A1 * B0 * !C0 * !C1 * Y)	0.00037	0.00037	0.00037
	(A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !B0 * !C0 * !C1 * Y)	0.00043	0.00044	0.00047
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00042	-0.00040	-0.00035
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00069	-0.00068	-0.00068
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00069	-0.00069	-0.00068
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00037	0.00037	0.00038
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00047	-0.00047	-0.00046
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00043	0.00044	0.00048
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00042	-0.00040	-0.00035
	(!A0 * !A1 * B0 * C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C1 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	-0.00028	-0.00025	-0.00021
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00053	0.00055	0.00058
	(A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00053	0.00055	0.00059
	(A1 * !B0 * !B1 * C1 * Y)	-0.00045	-0.00043	-0.00039
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	-0.00028	-0.00025	-0.00021
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00053	0.00055	0.00059
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00025	-0.00021
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00053	0.00055	0.00058
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00045	-0.00043	-0.00039
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	-0.00046	-0.00043	-0.00039
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00001	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00045	-0.00043	-0.00039
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C1 * !Y)**	0.00031	0.00031	0.00031
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00053	-0.00052	-0.00052
	(A1 * B0 * !B1 * C1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00053	-0.00052	-0.00052
	(A1 * !B0 * !B1 * C1 * Y)	0.00045	0.00046	0.00046
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	0.00050	0.00050	0.00050
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * B1 * C1 * !Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00053	-0.00052	-0.00052
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00053	-0.00052	-0.00052
	(!A1 * !B0 * !B1 * C1 * Y)	0.00045	0.00046	0.00046
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00045	0.00045	0.00046
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00045	0.00046	0.00046
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00067	0.00067	0.00067
	(A1 * !B0 * !B1 * C0 * Y)	-0.00053	-0.00050	-0.00046
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00012	0.00013
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00058	-0.00057	-0.00057
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00066	0.00067	0.00067
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00053	-0.00050	-0.00046
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00012	0.00013
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00058	-0.00057	-0.00056
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C0 * Y)	-0.00053	-0.00049	-0.00045
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00057	-0.00057	-0.00056
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00053	-0.00050	-0.00046
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00058	-0.00057	-0.00056
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

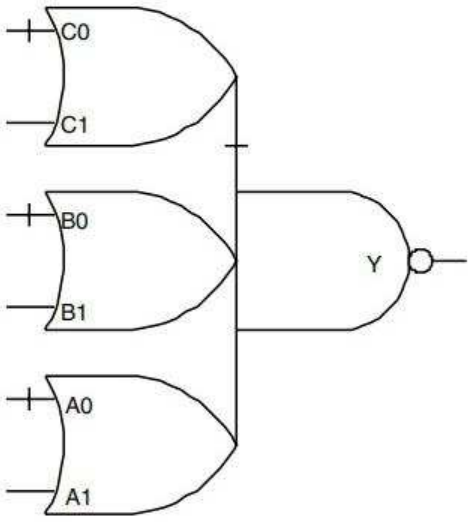
OAI222X3H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * !B0 * !B1 * C0 * Y)	0.00053	0.00053	0.00053
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00067	-0.00067	-0.00066
	(!A1 * !B0 * !B1 * C0 * Y)	0.00053	0.00053	0.00053
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009

OAI222X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X4H7L	0.00190	0.00199	0.00193	0.00197	0.00193	0.00203	0.07645

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X4H7L	0.00000	2.52025	6.62466

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7L	A0->Y (FR)	0.03868	0.18943	0.62954
	A1->Y (FR)	0.03533	0.18845	0.63952
	B0->Y (FR)	0.03266	0.18121	0.62234
	B1->Y (FR)	0.02984	0.18063	0.63247
	C0->Y (FR)	0.02492	0.17122	0.61347
	C1->Y (FR)	0.02190	0.17019	0.62495

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7L	A0->Y (RF)	0.03492	0.13995	0.45715
	A1->Y (RF)	0.03218	0.13615	0.45388
	B0->Y (RF)	0.03210	0.14356	0.49807
	B1->Y (RF)	0.02976	0.14009	0.49458
	C0->Y (RF)	0.02515	0.13623	0.49793
	C1->Y (RF)	0.02239	0.13202	0.49452

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7L	A0	0.00556	0.00585	0.00744
	A0	-0.00030	-0.00029	-0.00029
	A0	0.00058	0.00058	0.00058
	A0	-0.00003	0.00022	0.00180
	A1	0.00499	0.00539	0.00752
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00057	0.00058	0.00058
	A1	-0.00007	0.00032	0.00242
	B0	0.00479	0.00506	0.00672
	B0	-0.00029	-0.00029	-0.00029
	B0	0.00034	0.00034	0.00037
	B0	-0.00008	0.00021	0.00194
	B1	0.00425	0.00464	0.00680
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00033	0.00034	0.00036
	B1	-0.00008	0.00034	0.00258
	C0	0.00381	0.00415	0.00615
	C0	-0.00029	-0.00029	-0.00029
	C0	0.00011	0.00012	0.00016
	C0	-0.00023	0.00014	0.00242
	C1	0.00327	0.00371	0.00618
	C1	-0.00018	-0.00018	-0.00016
	C1	0.00011	0.00012	0.00014
	C1	-0.00026	0.00026	0.00304

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7L	A0	-0.00010	0.00009	0.00134
	A0	0.00050	0.00051	0.00051
	A0	-0.00055	-0.00055	-0.00055
	A0	0.00531	0.00552	0.00663
	A1	-0.00012	0.00013	0.00170
	A1	0.00039	0.00040	0.00041
	A1	-0.00055	-0.00055	-0.00052
	A1	0.00490	0.00512	0.00647
	B0	-0.00027	-0.00002	0.00159
	B0	0.00050	0.00051	0.00051
	B0	-0.00034	-0.00034	-0.00032
	B0	0.00437	0.00462	0.00593
	B1	-0.00020	0.00010	0.00203
	B1	0.00039	0.00040	0.00040
	B1	-0.00034	-0.00034	-0.00030
	B1	0.00404	0.00428	0.00580
	C0	-0.00012	0.00023	0.00236
	C0	0.00050	0.00051	0.00051
	C0	-0.00012	-0.00011	-0.00009
	C0	0.00337	0.00381	0.00570
	C1	-0.00024	0.00020	0.00277
	C1	0.00039	0.00040	0.00045
	C1	-0.00012	-0.00011	-0.00008
	C1	0.00302	0.00341	0.00553

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	-0.00036	-0.00032	-0.00027
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00061	0.00064	0.00068
	(A1 * B1 * C0 * !C1 * !Y)	-0.00036	-0.00032	-0.00027
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00061	0.00064	0.00068
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00036	-0.00033	-0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00061	0.00061	0.00061
	(A1 * B0 * !B1 * C1 * !Y)	-0.00036	-0.00032	-0.00027
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00061	0.00064	0.00068
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00036	-0.00032	-0.00027
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00061	0.00064	0.00068
	(A1 * !B0 * !B1 * Y)	-0.00036	-0.00034	-0.00030
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00060	0.00061	0.00062
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	0.00058	0.00058	0.00058
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00058	0.00058	0.00059
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00059	0.00059	0.00059
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00058	0.00059	0.00059
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00053	0.00054	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	0.00039	0.00039	0.00039
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * B1 * C0 * !C1 * !Y)	0.00039	0.00039	0.00040
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00036	0.00036	0.00037
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00060	-0.00060	-0.00059
	(A1 * B0 * !B1 * C1 * !Y)	0.00039	0.00039	0.00040
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00060	-0.00060	-0.00060
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00039	0.00039	0.00040
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00060	-0.00060	-0.00059
	(A1 * !B0 * !B1 * Y)	0.00036	0.00037	0.00037
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00061	-0.00060	-0.00060
	(!A1 * B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00047
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00053	-0.00049	-0.00042
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00047
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00053	-0.00049	-0.00043
	(!A1 * !B0 * !B1 * C1 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00054	-0.00051	-0.00046
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00054	-0.00051	-0.00046
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00054	-0.00051	-0.00046

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00076	0.00077	0.00077
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00077	0.00077	0.00077
	(A0 * B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00035
	(A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00055	0.00056	0.00056
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00077	0.00077	0.00077
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00077	0.00077	0.00077
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00036
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00056	0.00056	0.00056
	(A0 * !B0 * !B1 * C1 * Y)	-0.00043	-0.00040	-0.00035
	(A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00055	0.00056	0.00056
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00043	-0.00040	-0.00036
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00055	0.00056	0.00056
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00036
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00055	0.00055	0.00056
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00052	0.00053	0.00053
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00053	0.00053	0.00053
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00053	0.00053	0.00054
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00004	0.00004	0.00005
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00077	-0.00077	-0.00076
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00077	-0.00077	-0.00077
	(A0 * B1 * !C0 * !C1 * Y)	0.00042	0.00043	0.00043
	(A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00055	-0.00055	-0.00054
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00077	-0.00077	-0.00076
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00077	-0.00077	-0.00076
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00055	-0.00055	-0.00053
	(A0 * !B0 * !B1 * C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00056	-0.00055	-0.00054
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00055	-0.00055	-0.00054
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00055	-0.00055	-0.00055
	(!A0 * B1 * !C0 * !C1 * Y)	0.00050	0.00051	0.00053
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00038
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00050	0.00051	0.00053
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !B0 * !B1 * C1 * Y)	0.00050	0.00050	0.00051
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00050	0.00050	0.00051
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00049	-0.00046	-0.00042
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	-0.00034	-0.00031	-0.00025
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00066	0.00068	0.00071
	(A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00031	-0.00026
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00066	0.00068	0.00071
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00060	0.00060	0.00061
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00039	-0.00036	-0.00033
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00061	0.00061	0.00062
	(A0 * !A1 * B1 * C1 * !Y)	-0.00034	-0.00031	-0.00025
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00066	0.00068	0.00071
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00031	-0.00025
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00066	0.00068	0.00071
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00060	0.00060	0.00061
	(!A0 * !A1 * B1 * C1 * Y)	-0.00041	-0.00039	-0.00035
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00042	-0.00039	-0.00036
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00042	-0.00039	-0.00036
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00046	-0.00046	-0.00046
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	0.00036	0.00036	0.00036
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00066	-0.00065	-0.00065
	(A1 * B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00037
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00066	-0.00065	-0.00065
	(A1 * !B1 * !C0 * !C1 * Y)	0.00046	0.00048	0.00053
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00056	-0.00052	-0.00047
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00061	-0.00060	-0.00060
	(A0 * !A1 * B1 * C1 * !Y)	0.00036	0.00036	0.00037
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00066	-0.00065	-0.00065
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00037
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00065	-0.00065	-0.00065
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00046	0.00048	0.00054
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00056	-0.00052	-0.00046
	(!A0 * !A1 * B1 * C1 * Y)	0.00041	0.00042	0.00042
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00077	0.00078	0.00078
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00077	0.00078	0.00078
	(A1 * B0 * !C0 * !C1 * Y)	-0.00045	-0.00042	-0.00038
	(A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00053	0.00053	0.00054
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00052	0.00053	0.00053
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00077	0.00078	0.00078
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00077	0.00077	0.00078
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00046	-0.00042	-0.00039
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00053	0.00053	0.00054
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00052	0.00053	0.00053
	(!A0 * !A1 * B0 * C1 * Y)	-0.00047	-0.00044	-0.00040
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * C1 * Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00048	-0.00044	-0.00040
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00041
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00054	-0.00053	-0.00052
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00078	-0.00077	-0.00077
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00078	-0.00077	-0.00077
	(A1 * B0 * !C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00053	-0.00052	-0.00052
	(A1 * !B0 * !C0 * !C1 * Y)	0.00052	0.00054	0.00058
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00039
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00078	-0.00077	-0.00077
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00078	-0.00077	-0.00077
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00045	0.00046	0.00046
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00053	-0.00052	-0.00051
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00052	0.00054	0.00059
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !A1 * B0 * C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !B0 * C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	-0.00035	-0.00032	-0.00027
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00060	0.00063	0.00066
	(A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00032	-0.00027
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00060	0.00063	0.00067
	(A1 * !B0 * !B1 * C1 * Y)	-0.00054	-0.00051	-0.00047
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00005	0.00004
	(A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00060	-0.00060	-0.00059
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	-0.00035	-0.00032	-0.00027
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00060	0.00063	0.00067
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00032	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00060	0.00063	0.00066
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00054	-0.00051	-0.00047
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00060	-0.00059	-0.00059
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * C1 * Y)	-0.00054	-0.00051	-0.00047
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00060	-0.00059	-0.00059
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00054	-0.00051	-0.00047
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00060	-0.00059	-0.00059
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C1 * !Y)**	0.00039	0.00039	0.00039
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00060	-0.00059	-0.00059
	(A1 * B0 * !B1 * C1 * !Y)	0.00038	0.00039	0.00039
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00060	-0.00059	-0.00059
	(A1 * !B0 * !B1 * C1 * Y)	0.00054	0.00055	0.00055
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !B0 * !B1 * !C1 * Y)	0.00060	0.00060	0.00061
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00038	0.00039	0.00039
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00060	-0.00059	-0.00059
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00060	-0.00059	-0.00059
	(!A1 * !B0 * !B1 * C1 * Y)	0.00054	0.00055	0.00055
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00060	0.00060	0.00061
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00054	0.00055	0.00055
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B1 * !C1 * Y)	0.00060	0.00060	0.00060
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00054	0.00055	0.00055
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00059	0.00060	0.00060
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(A1 * !B0 * !B1 * C0 * Y)	-0.00063	-0.00060	-0.00055
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00076	0.00076	0.00077
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00063	-0.00060	-0.00055
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00063	-0.00059	-0.00055
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00063	-0.00060	-0.00055
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

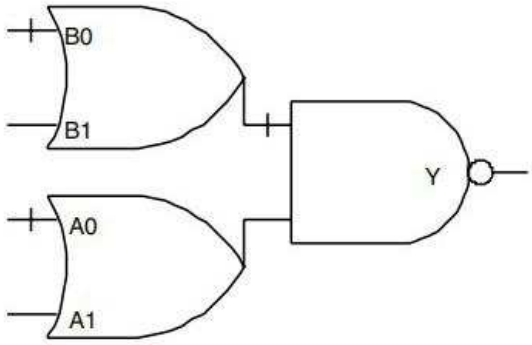
OAI222X4H7L	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00077	-0.00076	-0.00076
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00077	-0.00076	-0.00076
	(A1 * !B0 * !B1 * C0 * Y)	0.00063	0.00064	0.00064
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00009	-0.00009
	(A1 * !B0 * !B1 * !C0 * Y)	0.00068	0.00069	0.00069
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00077	-0.00076	-0.00075
	(!A1 * !B0 * !B1 * C0 * Y)	0.00063	0.00064	0.00064
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00068	0.00069	0.00069
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * Y)	0.00063	0.00063	0.00064
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	0.00068	0.00068	0.00069
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00063	0.00064	0.00064
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00068	0.00069	0.00069
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008

OAI22X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P5H7L	0.00067	0.00075	0.00069	0.00077	0.02203

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P5H7L	0.00000	0.79775	2.18606

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7L	A0->Y (FR)	0.04235	0.19108	0.62777
	A1->Y (FR)	0.04125	0.19195	0.63915
	B0->Y (FR)	0.03133	0.17807	0.61642
	B1->Y (FR)	0.03000	0.17877	0.62799

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7L	A0->Y (RF)	0.02556	0.11249	0.40180
	A1->Y (RF)	0.02468	0.11037	0.40013
	B0->Y (RF)	0.02063	0.10759	0.41301
	B1->Y (RF)	0.01969	0.10529	0.41186

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	A0	0.00120	0.00129	0.00182
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00009	0.00009	0.00009
	A0	-0.00004	0.00006	0.00059
	A1	0.00111	0.00123	0.00189
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00009	0.00009	0.00009
	A1	0.00002	0.00015	0.00081
	B0	0.00085	0.00096	0.00160
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00003	0.00003	0.00003
	B0	-0.00010	0.00002	0.00071
	B1	0.00076	0.00089	0.00166
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00003	0.00003	0.00003
	B1	-0.00006	0.00010	0.00090

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	A0	-0.00006	0.00001	0.00050
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00117	0.00125	0.00169
	A1	-0.00007	0.00002	0.00058
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00103	0.00111	0.00163
	B0	-0.00007	0.00006	0.00074
	B0	0.00009	0.00009	0.00009
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00082	0.00096	0.00160
	B1	-0.00006	0.00007	0.00084
	B1	0.00005	0.00006	0.00006
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00072	0.00085	0.00156

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * Y)	0.00010	0.00011	0.00013
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * Y)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

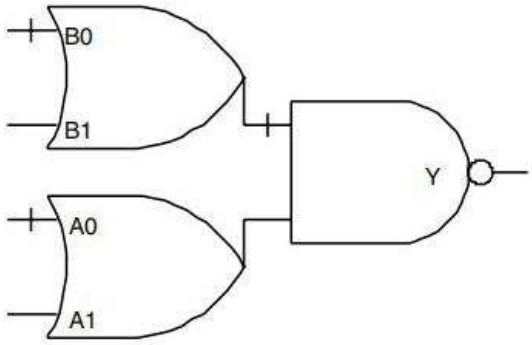
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004

OAI22X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P7H7L	0.00072	0.00081	0.00073	0.00083	0.02498

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P7H7L	0.00000	0.85160	2.33045

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7L	A0->Y (FR)	0.04015	0.18956	0.62925
	A1->Y (FR)	0.03883	0.19011	0.64018
	B0->Y (FR)	0.02913	0.17650	0.61849
	B1->Y (FR)	0.02774	0.17706	0.62990

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7L	A0->Y (RF)	0.02410	0.11043	0.39970
	A1->Y (RF)	0.02307	0.10819	0.39825
	B0->Y (RF)	0.01921	0.10565	0.41221
	B1->Y (RF)	0.01825	0.10318	0.40926

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	A0	0.00130	0.00141	0.00200
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00011	0.00011	0.00011
	A0	-0.00004	0.00006	0.00065
	A1	0.00121	0.00134	0.00208
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00011	0.00011	0.00011
	A1	0.00001	0.00015	0.00089
	B0	0.00092	0.00104	0.00176
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00003	0.00003	0.00004
	B0	-0.00011	0.00002	0.00079
	B1	0.00081	0.00097	0.00183
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00003	0.00003	0.00004
	B1	-0.00006	0.00011	0.00101

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	A0	-0.00007	0.00001	0.00055
	A0	0.00010	0.00010	0.00010
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00128	0.00136	0.00186
	A1	-0.00007	0.00002	0.00065
	A1	0.00007	0.00007	0.00007
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00114	0.00122	0.00180
	B0	-0.00008	0.00006	0.00082
	B0	0.00010	0.00010	0.00010
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00090	0.00104	0.00176
	B1	-0.00007	0.00008	0.00094
	B1	0.00007	0.00007	0.00007
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00077	0.00091	0.00171

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * !B1 * Y)	0.00011	0.00012	0.00014
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * !B1 * Y)	0.00014	0.00015	0.00017
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00028	0.00029	0.00029
	(A0 * !A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * B1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

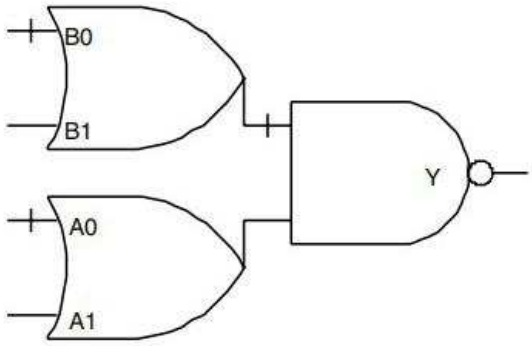
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00001
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1H7L	0.00078	0.00086	0.00081	0.00089	0.02978

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1H7L	0.00000	0.94140	2.57233

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7L	A0->Y (FR)	0.03555	0.18667	0.63147
	A1->Y (FR)	0.03514	0.18740	0.64236
	B0->Y (FR)	0.02666	0.17518	0.62261
	B1->Y (FR)	0.02506	0.17540	0.63264

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7L	A0->Y (RF)	0.02260	0.10980	0.40383
	A1->Y (RF)	0.02138	0.10721	0.40080
	B0->Y (RF)	0.01811	0.10550	0.41634
	B1->Y (RF)	0.01574	0.10287	0.41432

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7L	A0	0.00146	0.00159	0.00227
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00013	0.00013	0.00013
	A0	-0.00005	0.00006	0.00075
	A1	0.00133	0.00148	0.00235
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00013	0.00013	0.00013
	A1	-0.00001	0.00015	0.00102
	B0	0.00104	0.00118	0.00202
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00004	0.00004	0.00004
	B0	-0.00013	0.00002	0.00092
	B1	0.00091	0.00108	0.00209
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00004	0.00004	0.00004
	B1	-0.00008	0.00012	0.00118

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7L	A0	-0.00009	0.00001	0.00063
	A0	0.00012	0.00012	0.00012
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00143	0.00152	0.00210
	A1	-0.00009	0.00002	0.00076
	A1	0.00006	0.00008	0.00008
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00126	0.00136	0.00204
	B0	-0.00009	0.00006	0.00095
	B0	0.00012	0.00012	0.00012
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00103	0.00118	0.00200
	B1	-0.00008	0.00009	0.00109
	B1	0.00008	0.00008	0.00008
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00085	0.00103	0.00195

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * !B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !B1 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * Y)	0.00014	0.00015	0.00017
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00018	0.00020
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00030	0.00031	0.00032
	(A0 * !A1 * B1 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00030	0.00031	0.00032
	(!A0 * !A1 * B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

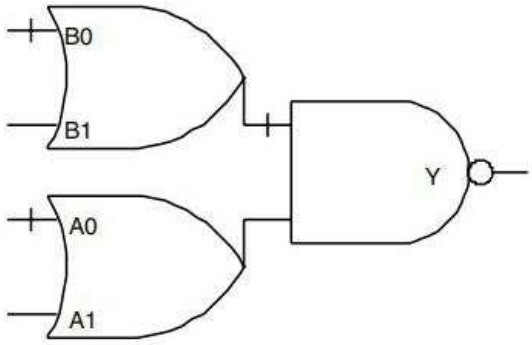
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1P4H7L	0.00085	0.00093	0.00086	0.00096	0.03390

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1P4H7L	0.00000	1.04084	2.84273

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7L	A0->Y (FR)	0.03345	0.18493	0.63174
	A1->Y (FR)	0.03299	0.18566	0.64320
	B0->Y (FR)	0.02498	0.17384	0.62318
	B1->Y (FR)	0.02330	0.17396	0.63306

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7L	A0->Y (RF)	0.02128	0.10760	0.40059
	A1->Y (RF)	0.02000	0.10501	0.39818
	B0->Y (RF)	0.01703	0.10364	0.41341
	B1->Y (RF)	0.01180	0.10098	0.41206

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	A0	0.00159	0.00174	0.00252
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00014	0.00015	0.00017
	A0	-0.00007	0.00007	0.00085
	A1	0.00143	0.00162	0.00261
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00014	0.00015	0.00015
	A1	-0.00003	0.00016	0.00116
	B0	0.00114	0.00130	0.00226
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00005	0.00005	0.00005
	B0	-0.00013	0.00004	0.00106
	B1	0.00098	0.00119	0.00234
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00005	0.00005	0.00005
	B1	-0.00009	0.00013	0.00135

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	A0	-0.00010	0.00001	0.00072
	A0	0.00014	0.00014	0.00014
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00156	0.00167	0.00232
	A1	-0.00010	0.00003	0.00088
	A1	0.00009	0.00010	0.00010
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00139	0.00150	0.00228
	B0	-0.00010	0.00007	0.00107
	B0	0.00014	0.00014	0.00014
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00107	0.00128	0.00222
	B1	-0.00009	0.00010	0.00124
	B1	0.00009	0.00010	0.00010
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00093	0.00112	0.00217

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00030	0.00031	0.00032
	(A1 * B0 * !B1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00030	0.00031	0.00032
	(A1 * !B0 * !B1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * Y)	0.00015	0.00017	0.00019
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00028	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !B1 * Y)	0.00018	0.00020	0.00022
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B1 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00031	0.00032	0.00033
	(A0 * !A1 * B1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00031	0.00032	0.00033
	(!A0 * !A1 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B0 * Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

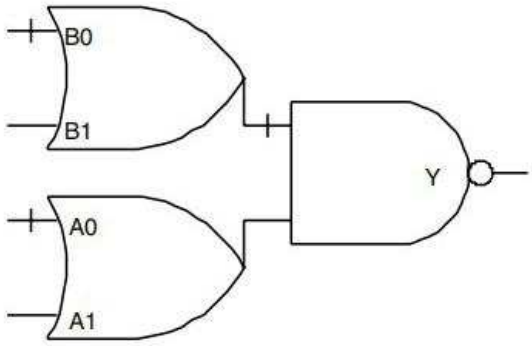
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X2H7L	0.00096	0.00106	0.00101	0.00107	0.03999

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X2H7L	0.00000	1.21145	3.30300

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7L	A0->Y (FR)	0.03267	0.18390	0.63328
	A1->Y (FR)	0.02939	0.18325	0.64323
	B0->Y (FR)	0.02345	0.17286	0.62403
	B1->Y (FR)	0.02152	0.17277	0.63542

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7L	A0->Y (RF)	0.01976	0.10433	0.39414
	A1->Y (RF)	0.01668	0.10171	0.39216
	B0->Y (RF)	0.01598	0.10107	0.40816
	B1->Y (RF)	0.00709	0.09820	0.40619

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7L	A0	0.00181	0.00197	0.00291
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00018	0.00018	0.00018
	A0	-0.00009	0.00007	0.00100
	A1	0.00161	0.00183	0.00301
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00018	0.00018	0.00018
	A1	-0.00006	0.00017	0.00136
	B0	0.00130	0.00149	0.00264
	B0	-0.00012	-0.00011	-0.00011
	B0	0.00006	0.00006	0.00006
	B0	-0.00018	0.00003	0.00124
	B1	0.00111	0.00136	0.00273
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00005	0.00006	0.00007
	B1	-0.00012	0.00015	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7L	A0	-0.00012	0.00001	0.00087
	A0	0.00017	0.00017	0.00017
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00173	0.00190	0.00269
	A1	-0.00012	0.00003	0.00106
	A1	0.00011	0.00011	0.00012
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00157	0.00170	0.00265
	B0	-0.00012	0.00008	0.00126
	B0	0.00017	0.00017	0.00017
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00129	0.00150	0.00259
	B1	-0.00011	0.00012	0.00147
	B1	0.00011	0.00011	0.00012
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00108	0.00129	0.00254

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00033	0.00033	0.00035
	(A1 * B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * !B1 * Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * Y)	0.00018	0.00020	0.00022
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00029	-0.00028	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00002	-0.00003	-0.00002
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00036	0.00036	0.00036
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00003	-0.00002
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !B0 * !B1 * Y)	-0.00020	-0.00018	-0.00017
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * Y)	0.00022	0.00023	0.00025
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00036	0.00037	0.00038
	(A0 * !A1 * B1 * !Y)	-0.00016	-0.00014	-0.00013
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00036	0.00037	0.00038
	(!A0 * !A1 * B1 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !Y)	0.00037	0.00038	0.00038
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00037	0.00037	0.00038
	(!A0 * !A1 * B0 * Y)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

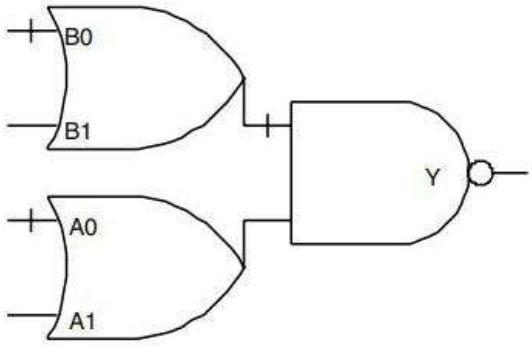
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A1 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X3H7L	0.00162	0.00171	0.00162	0.00174	0.06173

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X3H7L	0.00000	1.96223	5.37084

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7L	A0->Y (FR)	0.03163	0.18283	0.63008
	A1->Y (FR)	0.03001	0.18211	0.64065
	B0->Y (FR)	0.02371	0.17217	0.62145
	B1->Y (FR)	0.02034	0.17067	0.63152

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7L	A0->Y (RF)	0.02062	0.10644	0.39741
	A1->Y (RF)	0.01747	0.10312	0.39488
	B0->Y (RF)	0.01647	0.10278	0.41211
	B1->Y (RF)	0.00788	0.09917	0.40923

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7L	A0	0.00326	0.00349	0.00494
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00027	0.00027	0.00027
	A0	-0.00002	0.00021	0.00165
	A1	0.00277	0.00311	0.00500
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00027	0.00027	0.00027
	A1	-0.00006	0.00029	0.00216
	B0	0.00244	0.00273	0.00452
	B0	-0.00017	-0.00017	0.00003
	B0	0.00008	0.00009	0.00009
	B0	-0.00017	0.00014	0.00207
	B1	0.00197	0.00236	0.00456
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00006	0.00009	0.00010
	B1	-0.00024	0.00020	0.00255

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7L	A0	-0.00013	0.00007	0.00137
	A0	0.00025	0.00025	0.00026
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00303	0.00321	0.00445
	A1	-0.00018	0.00008	0.00174
	A1	0.00017	0.00017	0.00018
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00269	0.00291	0.00440
	B0	-0.00020	0.00013	0.00200
	B0	0.00025	0.00025	0.00025
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00214	0.00252	0.00425
	B1	-0.00018	0.00020	0.00238
	B1	0.00017	0.00017	0.00021
	B1	-0.00009	-0.00009	-0.00006
	B1	0.00190	0.00223	0.00421

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B1 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00054	0.00056	0.00060
	(A1 * B0 * !B1 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00054	0.00056	0.00059
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00026	-0.00023
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00054	0.00054	0.00054
	(!A1 * !B0 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * B0 * !B1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00053	-0.00053	-0.00052
	(!A1 * !B0 * !B1 * Y)	0.00036	0.00038	0.00041
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !Y)	0.00066	0.00066	0.00067
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00066	0.00066	0.00066
	(A0 * !B0 * !B1 * Y)	-0.00036	-0.00033	-0.00029
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00047	0.00047	0.00048
	(!A0 * !B0 * !B1 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00045	0.00046	0.00046

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !Y)	-0.00066	-0.00066	-0.00066
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * !B0 * !B1 * Y)	0.00036	0.00036	0.00036
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !B0 * !B1 * Y)	0.00042	0.00044	0.00047
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00041	-0.00038	-0.00034

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B1 * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00052	0.00054	0.00057
	(A0 * !A1 * B1 * !Y)	-0.00028	-0.00025	-0.00021
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00052	0.00054	0.00057
	(!A0 * !A1 * B1 * Y)	-0.00045	-0.00042	-0.00039
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B1 * Y)	-0.00050	-0.00049	-0.00048
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00051	-0.00051	-0.00051
	(A0 * !A1 * B1 * !Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00051	-0.00051	-0.00050
	(!A0 * !A1 * B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00066	0.00067	0.00067
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00066	0.00067	0.00067
	(!A0 * !A1 * B0 * Y)	-0.00053	-0.00050	-0.00046
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !B0 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

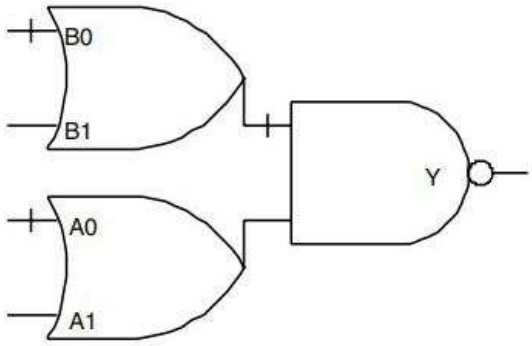
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00067	-0.00067	-0.00066
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00067	-0.00067	-0.00066
	(!A0 * !A1 * B0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * Y)	0.00057	0.00058	0.00058
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00009	-0.00009	-0.00008

OAI22X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X4H7L	0.00188	0.00200	0.00192	0.00202	0.07930

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X4H7L	0.00000	2.42290	6.60599

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7L	A0->Y (FR)	0.03004	0.18093	0.63117
	A1->Y (FR)	0.02574	0.17944	0.64170
	B0->Y (FR)	0.02143	0.17043	0.62282
	B1->Y (FR)	0.01833	0.16935	0.63326

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7L	A0->Y (RF)	0.01857	0.10296	0.39267
	A1->Y (RF)	0.01139	0.09982	0.39047
	B0->Y (RF)	0.01503	0.10013	0.40790
	B1->Y (RF)	0.00233	0.09659	0.40486

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7L	A0	0.00380	0.00410	0.00599
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00035	0.00035	0.00036
	A0	-0.00016	0.00015	0.00203
	A1	0.00321	0.00367	0.00611
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00035	0.00035	0.00035
	A1	-0.00018	0.00028	0.00268
	B0	0.00287	0.00324	0.00557
	B0	-0.00023	-0.00022	-0.00022
	B0	0.00011	0.00012	0.00012
	B0	-0.00027	0.00013	0.00263
	B1	0.00230	0.00280	0.00564
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00011	0.00012	0.00013
	B1	-0.00032	0.00024	0.00327

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7L	A0	-0.00026	0.00001	0.00178
	A0	0.00033	0.00034	0.00034
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00363	0.00387	0.00549
	A1	-0.00024	0.00010	0.00226
	A1	0.00019	0.00023	0.00030
	A1	-0.00034	-0.00034	-0.00034
	A1	0.00322	0.00350	0.00545
	B0	-0.00026	0.00016	0.00254
	B0	0.00033	0.00034	0.00034
	B0	-0.00012	-0.00012	-0.00010
	B0	0.00259	0.00306	0.00527
	B1	-0.00023	0.00025	0.00305
	B1	0.00019	0.00023	0.00026
	B1	-0.00012	-0.00012	-0.00010
	B1	0.00226	0.00268	0.00524

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B1 * !Y)	-0.00035	-0.00032	-0.00027
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00060	0.00063	0.00067
	(A1 * B0 * !B1 * !Y)	-0.00035	-0.00032	-0.00027
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00060	0.00063	0.00067
	(A1 * !B0 * !B1 * Y)	-0.00036	-0.00033	-0.00029
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00060	0.00060	0.00060
	(!A1 * !B0 * !B1 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00059	0.00060	0.00060

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B1 * !Y)	0.00038	0.00039	0.00039
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00060	-0.00059	-0.00059
	(A1 * B0 * !B1 * !Y)	0.00038	0.00039	0.00039
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00060	-0.00059	-0.00059
	(A1 * !B0 * !B1 * Y)	0.00036	0.00036	0.00037
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00060	-0.00059	-0.00059
	(!A1 * !B0 * !B1 * Y)	0.00044	0.00046	0.00050
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00053	-0.00050	-0.00045

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00075	0.00076	0.00076
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00076	0.00076	0.00076
	(A0 * !B0 * !B1 * Y)	-0.00044	-0.00040	-0.00036
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00054	0.00054	0.00055
	(!A0 * !B0 * !B1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00052	0.00053	0.00053

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * !B0 * !B1 * Y)	0.00044	0.00044	0.00044
	(A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !B0 * !B1 * Y)	0.00051	0.00053	0.00057
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00047	-0.00044	-0.00039

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B1 * !Y)	-0.00036	-0.00032	-0.00027
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00060	0.00062	0.00066
	(A0 * !A1 * B1 * !Y)	-0.00036	-0.00032	-0.00027
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00060	0.00062	0.00066
	(!A0 * !A1 * B1 * Y)	-0.00055	-0.00052	-0.00048
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * Y)	-0.00061	-0.00060	-0.00059
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B1 * !Y)	0.00038	0.00039	0.00039
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * !A1 * B1 * !Y)	0.00038	0.00039	0.00039
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * B1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * Y)	0.00061	0.00061	0.00061
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00076	0.00076	0.00077
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00075	0.00076	0.00077
	(!A0 * !A1 * B0 * Y)	-0.00063	-0.00059	-0.00054
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * Y)	-0.00068	-0.00068	-0.00067
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

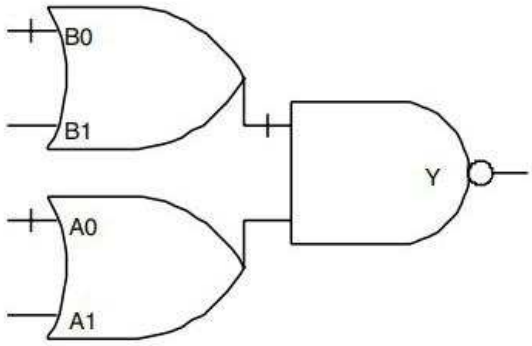
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00076	-0.00076	-0.00074
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00077	-0.00076	-0.00075
	(!A0 * !A1 * B0 * Y)	0.00063	0.00063	0.00063
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * Y)	0.00068	0.00068	0.00068
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007

OAI22X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X6H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X6H7L	0.00279	0.00291	0.00298	0.00291	0.11827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X6H7L	0.00000	3.63435	9.90897

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7L	A0->Y (FR)	0.02718	0.17887	0.63028
	A1->Y (FR)	0.02438	0.17817	0.64107
	B0->Y (FR)	0.02031	0.16912	0.62161
	B1->Y (FR)	0.01696	0.16775	0.63210

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7L	A0->Y (RF)	0.01796	0.10220	0.39157
	A1->Y (RF)	0.00783	0.09872	0.38955
	B0->Y (RF)	0.01384	0.09980	0.41000
	B1->Y (RF)	-0.00114	0.09567	0.40588

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7L	A0	0.00564	0.00609	0.00898
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00053	0.00053	0.00053
	A0	-0.00030	0.00017	0.00304
	A1	0.00481	0.00546	0.00916
	A1	-0.00018	-0.00017	-0.00016
	A1	0.00053	0.00053	0.00053
	A1	-0.00029	0.00040	0.00405
	B0	0.00425	0.00482	0.00838
	B0	-0.00034	-0.00034	-0.00034
	B0	0.00017	0.00017	0.00022
	B0	-0.00049	0.00015	0.00397
	B1	0.00334	0.00411	0.00842
	B1	-0.00018	-0.00017	-0.00014
	B1	0.00017	0.00017	0.00018
	B1	-0.00046	0.00038	0.00500

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7L	A0	-0.00040	0.00002	0.00273
	A0	0.00050	0.00050	0.00051
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00537	0.00581	0.00827
	A1	-0.00041	0.00012	0.00343
	A1	0.00029	0.00034	0.00038
	A1	-0.00051	-0.00051	-0.00050
	A1	0.00471	0.00515	0.00816
	B0	-0.00040	0.00023	0.00384
	B0	0.00049	0.00050	0.00051
	B0	-0.00017	-0.00017	-0.00015
	B0	0.00396	0.00462	0.00795
	B1	-0.00037	0.00036	0.00463
	B1	0.00033	0.00034	0.00043
	B1	-0.00018	-0.00017	-0.00016
	B1	0.00325	0.00388	0.00780

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B1 * !Y)	-0.00053	-0.00048	-0.00040
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * !Y)	0.00001	0.00002	0.00005
	(A1 * B1 * !Y)	0.00092	0.00095	0.00098
	(A1 * B0 * !B1 * !Y)	-0.00053	-0.00048	-0.00040
	(A1 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00092	0.00095	0.00100
	(A1 * !B0 * !B1 * Y)	-0.00053	-0.00049	-0.00044
	(A1 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00091	0.00092	0.00092
	(!A1 * !B0 * !B1 * Y)	-0.00063	-0.00063	-0.00062
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00090	0.00091	0.00091

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B1 * !Y)	0.00058	0.00058	0.00059
	(A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00091	-0.00090	-0.00089
	(A1 * B0 * !B1 * !Y)	0.00057	0.00058	0.00059
	(A1 * B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00091	-0.00090	-0.00089
	(A1 * !B0 * !B1 * Y)	0.00053	0.00054	0.00054
	(A1 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00091	-0.00090	-0.00089
	(!A1 * !B0 * !B1 * Y)	0.00065	0.00069	0.00075
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00082	-0.00077	-0.00069

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00109	0.00110	0.00111
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00110	0.00110	0.00110
	(A0 * !B0 * !B1 * Y)	-0.00064	-0.00059	-0.00053
	(A0 * !B0 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00080	0.00080	0.00081
	(!A0 * !B0 * !B1 * Y)	-0.00073	-0.00072	-0.00071
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00078	0.00079	0.00079

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00110	-0.00110	-0.00109
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00110	-0.00110	-0.00108
	(A0 * !B0 * !B1 * Y)	0.00063	0.00063	0.00064
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00005
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00079	-0.00078	-0.00077
	(!A0 * !B0 * !B1 * Y)	0.00074	0.00078	0.00084
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00070	-0.00066	-0.00058

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B1 * !Y)	-0.00055	-0.00050	-0.00042
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00092	0.00097	0.00103
	(A0 * !A1 * B1 * !Y)	-0.00056	-0.00050	-0.00041
	(A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00092	0.00097	0.00102
	(!A0 * !A1 * B1 * Y)	-0.00083	-0.00079	-0.00074
	(!A0 * !A1 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !B1 * Y)	-0.00094	-0.00093	-0.00092
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B1 * !Y)	0.00061	0.00061	0.00062
	(A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00091	-0.00091	-0.00090
	(A0 * !A1 * B1 * !Y)	0.00061	0.00061	0.00062
	(A0 * !A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00091	-0.00090	-0.00090
	(!A0 * !A1 * B1 * Y)	0.00084	0.00085	0.00086
	(!A0 * !A1 * B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * Y)	0.00094	0.00094	0.00095
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00109	0.00109	0.00110
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00109	0.00109	0.00110
	(!A0 * !A1 * B0 * Y)	-0.00090	-0.00085	-0.00078
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !B0 * Y)	-0.00099	-0.00098	-0.00097
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00006	0.00006	0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00110	-0.00109	-0.00108
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00110	-0.00109	-0.00108
	(!A0 * !A1 * B0 * Y)	0.00090	0.00091	0.00091
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * Y)	0.00098	0.00099	0.00100
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * Y)	-0.00010	-0.00009	-0.00009

OAI2BB1X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P5H7L	0.00074	0.00080	0.00068	0.04182

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P5H7L	0.00000	1.12007	1.76988

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7L	A0->YN (RR)	0.03854	0.15712	0.45276
	A1->YN (RR)	0.03814	0.15754	0.45404
	B0->YN (FR)	0.01588	0.16554	0.64235

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7L	A0->YN (FF)	0.03757	0.18509	0.55398
	A1->YN (FF)	0.03644	0.18175	0.54880
	B0->YN (RF)	0.01687	0.15875	0.60757

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	A0	0.00046	0.00067	0.00137
	A0	-0.00000	-0.00000	0.00000
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00115	0.00136	0.00206
	A1	0.00045	0.00071	0.00157
	A1	-0.00000	0.00000	0.00000
	A1	-0.00000	0.00000	0.00001
	A1	0.00105	0.00131	0.00217
	B0	0.00036	0.00055	0.00147
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00005	0.00005	0.00005
	B0	-0.00010	0.00005	0.00096

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	A0	0.00117	0.00144	0.00232
	A0	-0.00000	0.00000	0.00000
	A0	0.00003	0.00003	0.00003
	A0	0.00048	0.00075	0.00163
	A1	0.00109	0.00137	0.00234
	A1	-0.00000	0.00000	0.00000
	A1	-0.00000	0.00000	0.00000
	A1	0.00049	0.00077	0.00174
	B0	0.00011	0.00021	0.00098
	B0	0.00003	0.00003	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00059	0.00072	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A1 * !B0 * YN)	0.00016	0.00034	0.00101
	(A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00098	0.00116	0.00184
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A1 * !B0 * YN)	0.00080	0.00104	0.00183
	(A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * YN)	-0.00001	0.00022	0.00101
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00016	0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A0 * !B0 * YN)	0.00015	0.00038	0.00117
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00088	0.00111	0.00190
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A0 * !B0 * YN)	0.00073	0.00098	0.00187
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00001	0.00025	0.00114
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00023	0.00023	0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A0 * A1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7L	(A0 * A1 * YN)	0.00012	0.00013	0.00014
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	-0.00023	-0.00022	-0.00021

OAI2BB1X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P7H7L	0.00068	0.00079	0.00075	0.04816

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P7H7L	0.00000	1.15751	1.82100

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7L	A0->YN (RR)	0.03801	0.15885	0.46039
	A1->YN (RR)	0.03799	0.15967	0.46179
	B0->YN (FR)	0.01550	0.16706	0.64919

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7L	A0->YN (FF)	0.03661	0.18529	0.55736
	A1->YN (FF)	0.03586	0.18236	0.55253
	B0->YN (RF)	0.01628	0.15885	0.61017

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	A0	0.00050	0.00071	0.00142
	A0	-0.00001	-0.00000	-0.00000
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00118	0.00139	0.00210
	A1	0.00049	0.00074	0.00162
	A1	-0.00001	-0.00000	-0.00000
	A1	0.00000	0.00000	0.00001
	A1	0.00109	0.00134	0.00221
	B0	0.00048	0.00066	0.00167
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00005	0.00005	0.00005
	B0	-0.00008	0.00009	0.00108

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	A0	0.00119	0.00145	0.00236
	A0	0.00000	0.00001	0.00001
	A0	0.00003	0.00003	0.00003
	A0	0.00051	0.00078	0.00168
	A1	0.00112	0.00140	0.00238
	A1	0.00000	0.00001	0.00001
	A1	-0.00000	-0.00000	0.00000
	A1	0.00053	0.00081	0.00179
	B0	0.00010	0.00021	0.00106
	B0	0.00003	0.00003	0.00004
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00065	0.00078	0.00164

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A1 * !B0 * YN)	0.00015	0.00033	0.00100
	(A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00099	0.00117	0.00183
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A1 * !B0 * YN)	0.00084	0.00108	0.00186
	(A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * YN)	0.00002	0.00025	0.00104
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00014	0.00014	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A0 * !B0 * YN)	0.00014	0.00036	0.00115
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00088	0.00111	0.00189
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A0 * !B0 * YN)	0.00078	0.00104	0.00191
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00003	0.00003	0.00004
	(A0 * !B0 * YN)	0.00004	0.00029	0.00117
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00023	0.00023	0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A0 * A1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7L	(A0 * A1 * YN)	0.00015	0.00015	0.00016
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	-0.00024	-0.00024	-0.00023

OAI2BB1X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1H7L	0.00073	0.00082	0.00080	0.05885

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1H7L	0.00000	1.22010	1.90413

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7L	A0->YN (RR)	0.03701	0.16147	0.47027
	A1->YN (RR)	0.03678	0.16219	0.47366
	B0->YN (FR)	0.01375	0.16844	0.66049

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7L	A0->YN (FF)	0.03560	0.18908	0.57282
	A1->YN (FF)	0.03460	0.18595	0.56822
	B0->YN (RF)	0.01447	0.16151	0.62434

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	A0	0.00053	0.00075	0.00148
	A0	-0.00001	-0.00001	-0.00001
	A0	-0.00003	-0.00003	-0.00001
	A0	0.00120	0.00142	0.00215
	A1	0.00052	0.00078	0.00169
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00000	0.00001	0.00002
	A1	0.00110	0.00137	0.00228
	B0	0.00046	0.00067	0.00185
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00006	0.00006	0.00006
	B0	-0.00013	0.00006	0.00122

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	A0	0.00122	0.00150	0.00244
	A0	0.00001	0.00001	0.00001
	A0	0.00003	0.00003	0.00003
	A0	0.00056	0.00083	0.00177
	A1	0.00115	0.00144	0.00245
	A1	0.00001	0.00001	0.00002
	A1	-0.00001	-0.00001	0.00000
	A1	0.00057	0.00085	0.00187
	B0	0.00012	0.00025	0.00125
	B0	0.00004	0.00004	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00072	0.00087	0.00189

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A1 * !B0 * YN)	0.00019	0.00037	0.00104
	(A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(A1 * !B0 * YN)	0.00103	0.00121	0.00187
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00017	0.00017	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A1 * !B0 * YN)	0.00082	0.00105	0.00183
	(A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(A1 * !B0 * YN)	-0.00001	0.00022	0.00101
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00016	0.00017
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A0 * !B0 * YN)	0.00018	0.00041	0.00119
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00093	0.00115	0.00194
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A0 * !B0 * YN)	0.00074	0.00100	0.00187
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00003	0.00003	0.00004
	(A0 * !B0 * YN)	-0.00000	0.00025	0.00112
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00023	0.00024	0.00024
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A0 * A1 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * A1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7L	(A0 * A1 * YN)	0.00016	0.00017	0.00018
	(A0 * A1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	-0.00026	-0.00025	-0.00024

OAI2BB1X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1P4H7L	0.00071	0.00078	0.00088	0.06568

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1P4H7L	0.00000	1.28916	1.99565

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7L	A0->YN (RR)	0.03705	0.16011	0.46478
	A1->YN (RR)	0.03699	0.16105	0.46758
	B0->YN (FR)	0.01343	0.16586	0.65339

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7L	A0->YN (FF)	0.03529	0.18597	0.56198
	A1->YN (FF)	0.03449	0.18303	0.55739
	B0->YN (RF)	0.01204	0.15725	0.61088

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	A0	0.00060	0.00082	0.00157
	A0	-0.00002	-0.00002	-0.00002
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00126	0.00148	0.00223
	A1	0.00059	0.00085	0.00179
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00000	0.00001	0.00001
	A1	0.00115	0.00141	0.00235
	B0	0.00054	0.00079	0.00212
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00007	0.00007	0.00007
	B0	-0.00011	0.00011	0.00142

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	A0	0.00123	0.00153	0.00250
	A0	0.00002	0.00002	0.00003
	A0	0.00002	0.00002	0.00002
	A0	0.00059	0.00087	0.00184
	A1	0.00119	0.00148	0.00252
	A1	0.00001	0.00002	0.00002
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00064	0.00092	0.00196
	B0	0.00012	0.00026	0.00139
	B0	0.00005	0.00005	0.00005
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00076	0.00095	0.00210

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A1 * !B0 * YN)	0.00021	0.00038	0.00104
	(A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * YN)	0.00106	0.00123	0.00189
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A1 * !B0 * YN)	0.00085	0.00108	0.00186
	(A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * YN)	0.00000	0.00023	0.00101
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00014	0.00014	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A0 * !B0 * YN)	0.00019	0.00041	0.00119
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * YN)	0.00094	0.00116	0.00194
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A0 * !B0 * YN)	0.00078	0.00103	0.00190
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00003	0.00004	0.00004
	(A0 * !B0 * YN)	0.00003	0.00028	0.00115
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00023	0.00023	0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A0 * A1 * YN)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	0.00028	0.00028	0.00029

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7L	(A0 * A1 * YN)	0.00019	0.00019	0.00020
	(A0 * A1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	-0.00027	-0.00027	-0.00026

OAI2BB1X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X2H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X2H7L	0.00077	0.00080	0.00100	0.07949

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X2H7L	0.00000	1.40852	2.15003

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7L	A0->YN (RR)	0.03902	0.16598	0.47945
	A1->YN (RR)	0.03846	0.16668	0.48157
	B0->YN (FR)	0.01306	0.16851	0.66293

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7L	A0->YN (FF)	0.03669	0.18917	0.56829
	A1->YN (FF)	0.03550	0.18595	0.56267
	B0->YN (RF)	0.00968	0.15732	0.61535

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	A0	0.00076	0.00099	0.00177
	A0	-0.00003	-0.00003	0.00000
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00140	0.00163	0.00241
	A1	0.00076	0.00103	0.00201
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00001	0.00001	0.00001
	A1	0.00128	0.00155	0.00253
	B0	0.00066	0.00094	0.00251
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00009	0.00009	0.00009
	B0	-0.00012	0.00014	0.00168

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	A0	0.00138	0.00165	0.00267
	A0	0.00000	0.00003	0.00003
	A0	0.00002	0.00002	0.00002
	A0	0.00073	0.00101	0.00204
	A1	0.00128	0.00158	0.00267
	A1	0.00002	0.00003	0.00004
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00078	0.00106	0.00215
	B0	0.00017	0.00033	0.00167
	B0	0.00006	0.00006	0.00006
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00093	0.00114	0.00249

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A1 * !B0 * YN)	0.00028	0.00045	0.00109
	(A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * YN)	0.00114	0.00131	0.00196
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A1 * !B0 * YN)	0.00085	0.00108	0.00185
	(A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * YN)	0.00007	0.00007	0.00008
	(A1 * !B0 * YN)	-0.00001	0.00022	0.00099
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00016	0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A0 * !B0 * YN)	0.00027	0.00048	0.00125
	(A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN)	0.00101	0.00122	0.00199
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A0 * !B0 * YN)	0.00077	0.00102	0.00187
	(A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * !B0 * YN)	0.00003	0.00028	0.00113
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00022	0.00022	0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A0 * A1 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	0.00032	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7L	(A0 * A1 * YN)	0.00022	0.00023	0.00024
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	-0.00031	-0.00030	-0.00028

OAI2BB1X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X3H7L	0.00085	0.00088	0.00166	0.11941

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X3H7L	0.00000	2.03393	3.19514

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7L	A0->YN (RR)	0.03810	0.16397	0.47197
	A1->YN (RR)	0.03725	0.16435	0.47276
	B0->YN (FR)	0.01264	0.16471	0.65056

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7L	A0->YN (FF)	0.03562	0.18953	0.56997
	A1->YN (FF)	0.03429	0.18626	0.56451
	B0->YN (RF)	0.00530	0.15662	0.60993

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	A0	0.00114	0.00143	0.00248
	A0	-0.00005	-0.00004	0.00000
	A0	-0.00002	-0.00002	0.00000
	A0	0.00180	0.00211	0.00315
	A1	0.00114	0.00149	0.00284
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00002	0.00002	0.00004
	A1	0.00164	0.00202	0.00336
	B0	0.00109	0.00154	0.00404
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00013	0.00013	0.00013
	B0	-0.00021	0.00021	0.00266

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	A0	0.00193	0.00229	0.00372
	A0	0.00000	0.00005	0.00005
	A0	0.00002	0.00002	0.00002
	A0	0.00125	0.00161	0.00306
	A1	0.00180	0.00218	0.00370
	A1	0.00004	0.00005	0.00007
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00128	0.00166	0.00318
	B0	0.00033	0.00060	0.00274
	B0	0.00008	0.00009	0.00009
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00167	0.00196	0.00413

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A1 * !B0 * YN)	0.00044	0.00064	0.00142
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00011	-0.00010	-0.00010
	(A1 * !B0 * YN)	0.00148	0.00168	0.00246
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A1 * !B0 * YN)	0.00111	0.00139	0.00234
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * YN)	0.00010	0.00010	0.00011
	(A1 * !B0 * YN)	0.00008	0.00036	0.00131
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00019	0.00019	0.00020
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A0 * !B0 * YN)	0.00043	0.00069	0.00163
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00131	0.00158	0.00252
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A0 * !B0 * YN)	0.00099	0.00129	0.00235
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	0.00011	0.00041	0.00146
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A0 * A1 * YN)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00055	0.00055	0.00055

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7L	(A0 * A1 * YN)	0.00035	0.00037	0.00039
	(A0 * A1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00053	-0.00050	-0.00047

OAI2BB1X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X4H7L	0.00093	0.00097	0.00194	0.15553

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X4H7L	0.00000	2.43395	3.85226

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7L	A0->YN (RR)	0.03598	0.16295	0.47295
	A1->YN (RR)	0.03513	0.16325	0.47371
	B0->YN (FR)	0.01161	0.16501	0.65629

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7L	A0->YN (FF)	0.03445	0.18982	0.57335
	A1->YN (FF)	0.03305	0.18651	0.56848
	B0->YN (RF)	0.00018	0.15544	0.61168

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	A0	0.00133	0.00166	0.00293
	A0	-0.00007	-0.00007	-0.00002
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00203	0.00236	0.00363
	A1	0.00133	0.00173	0.00336
	A1	-0.00008	-0.00007	-0.00003
	A1	0.00003	0.00003	0.00003
	A1	0.00184	0.00226	0.00388
	B0	0.00123	0.00184	0.00504
	B0	-0.00012	-0.00012	-0.00010
	B0	0.00017	0.00017	0.00018
	B0	-0.00027	0.00026	0.00339

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	A0	0.00213	0.00259	0.00434
	A0	0.00002	0.00007	0.00013
	A0	0.00002	0.00002	0.00002
	A0	0.00148	0.00189	0.00364
	A1	0.00204	0.00247	0.00430
	A1	0.00003	0.00007	0.00008
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00152	0.00195	0.00379
	B0	0.00038	0.00072	0.00349
	B0	0.00010	0.00012	0.00012
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00184	0.00234	0.00514

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A1 * !B0 * YN)	0.00052	0.00075	0.00163
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00013	-0.00013	-0.00012
	(A1 * !B0 * YN)	0.00169	0.00192	0.00279
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A1 * !B0 * YN)	0.00122	0.00154	0.00261
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00012	0.00013	0.00013
	(A1 * !B0 * YN)	0.00008	0.00039	0.00146
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00021	0.00021	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A0 * !B0 * YN)	0.00052	0.00081	0.00187
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * YN)	0.00150	0.00180	0.00285
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A0 * !B0 * YN)	0.00109	0.00143	0.00261
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * YN)	0.00011	0.00044	0.00163
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00029	0.00029	0.00029
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A0 * A1 * YN)	-0.00043	-0.00042	-0.00042
	(A0 * A1 * YN)	-0.00001	-0.00001	0.00000
	(A0 * A1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * YN)	0.00060	0.00061	0.00061

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7L	(A0 * A1 * YN)	0.00044	0.00046	0.00049
	(A0 * A1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * YN)	-0.00058	-0.00056	-0.00051

OAI2BB1X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X6H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X6H7L	0.00103	0.00106	0.00288	0.23281

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X6H7L	0.00000	3.39496	5.59443

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7L	A0->YN (RR)	0.03770	0.16676	0.48030
	A1->YN (RR)	0.03670	0.16714	0.48042
	B0->YN (FR)	0.01079	0.16365	0.65531

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7L	A0->YN (FF)	0.03536	0.19243	0.57779
	A1->YN (FF)	0.03391	0.18914	0.57213
	B0->YN (RF)	-0.00316	0.15402	0.60788

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	A0	0.00201	0.00241	0.00413
	A0	-0.00012	-0.00012	-0.00011
	A0	-0.00001	-0.00000	0.00001
	A0	0.00268	0.00309	0.00481
	A1	0.00201	0.00249	0.00475
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00005	0.00006	0.00007
	A1	0.00246	0.00298	0.00522
	B0	0.00181	0.00268	0.00755
	B0	-0.00018	-0.00017	-0.00016
	B0	0.00026	0.00026	0.00026
	B0	-0.00049	0.00031	0.00510

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	A0	0.00281	0.00335	0.00578
	A0	0.00012	0.00012	0.00022
	A0	0.00000	0.00001	0.00001
	A0	0.00217	0.00267	0.00511
	A1	0.00266	0.00320	0.00572
	A1	0.00011	0.00012	0.00012
	A1	-0.00007	-0.00006	-0.00005
	A1	0.00219	0.00272	0.00525
	B0	0.00052	0.00105	0.00532
	B0	0.00017	0.00017	0.00018
	B0	-0.00026	-0.00026	-0.00026
	B0	0.00271	0.00345	0.00779

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A1 * !B0 * YN)	0.00080	0.00106	0.00205
	(A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(A1 * !B0 * YN)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * YN)	0.00218	0.00243	0.00342
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00025	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A1 * !B0 * YN)	0.00145	0.00181	0.00304
	(A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * YN)	0.00009	0.00044	0.00168
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00024	0.00025	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00023	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A0 * !B0 * YN)	0.00080	0.00113	0.00233
	(A0 * !B0 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * YN)	-0.00011	-0.00011	-0.00011
	(A0 * !B0 * YN)	0.00196	0.00229	0.00349
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A0 * !B0 * YN)	0.00128	0.00166	0.00301
	(A0 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(A0 * !B0 * YN)	0.00011	0.00011	0.00011
	(A0 * !B0 * YN)	0.00012	0.00050	0.00185
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00032	0.00033	0.00033
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A0 * A1 * YN)	-0.00064	-0.00063	-0.00063
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00091	0.00092	0.00092

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7L	(A0 * A1 * YN)	0.00065	0.00068	0.00073
	(A0 * A1 * YN)	0.00000	0.00001	0.00004
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00087	-0.00084	-0.00079

OAI2BB2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**B1**	**YN**
x	**x**	**0**	**0**	**1**
0	**x**	**x**	**1**	**0**
0	**x**	**1**	**x**	**0**
1	**0**	**x**	**1**	**0**
1	**0**	**1**	**x**	**0**
1	**1**	**x**	**1**	**1**
1	**1**	**1**	**x**	**1**

Footprint

Cell Name	Area
OAI2BB2X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P5H7L	0.00081	0.00073	0.00071	0.00076	0.02248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P5H7L	0.00000	1.20206	2.36565

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7L	A0->YN (RR)	0.04042	0.11337	0.28610
	A1->YN (RR)	0.04061	0.11269	0.28454
	B0->YN (FR)	0.03596	0.18618	0.62841
	B1->YN (FR)	0.03487	0.18703	0.64070

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7L	A0->YN (FF)	0.04017	0.13368	0.36292
	A1->YN (FF)	0.04116	0.13689	0.36837
	B0->YN (RF)	0.02251	0.10905	0.40272
	B1->YN (RF)	0.02119	0.10682	0.40230

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	A0	0.00062	0.00087	0.00171
	A0	-0.00000	0.00000	0.00000
	A0	-0.00000	0.00000	0.00001
	A0	0.00109	0.00134	0.00220
	A1	0.00063	0.00083	0.00152
	A1	-0.00000	0.00000	0.00000
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00120	0.00140	0.00210
	B0	0.00072	0.00082	0.00138
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00006	0.00006	0.00006
	B0	0.00002	0.00011	0.00067
	B1	0.00065	0.00077	0.00147
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00006	0.00006	0.00006
	B1	0.00003	0.00016	0.00084

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	A0	0.00115	0.00143	0.00240
	A0	0.00003	0.00003	0.00003
	A0	-0.00000	0.00000	0.00000
	A0	0.00066	0.00093	0.00187
	A1	0.00122	0.00148	0.00238
	A1	0.00003	0.00003	0.00003
	A1	0.00003	0.00003	0.00003
	A1	0.00065	0.00090	0.00177
	B0	0.00016	0.00024	0.00073
	B0	0.00006	0.00006	0.00006
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00085	0.00094	0.00144
	B1	0.00015	0.00023	0.00080
	B1	0.00003	0.00003	0.00003
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00077	0.00086	0.00143

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A1 * !B0 * !B1 * YN)	0.00015	0.00037	0.00115
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00089	0.00111	0.00189
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A1 * !B0 * !B1 * YN)	0.00080	0.00105	0.00193
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	0.00006	0.00031	0.00118
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * !B0 * !B1 * YN)	0.00016	0.00034	0.00100
	(A0 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00099	0.00117	0.00183
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * !B0 * !B1 * YN)	0.00087	0.00110	0.00188
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	0.00004	0.00028	0.00106
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00014	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * A1 * B1 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * YN)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00022	0.00022	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * A1 * B1 * YN)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * YN)	0.00010	0.00011	0.00012
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * A1 * B0 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00026	0.00026	0.00026

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7L	(A0 * A1 * B0 * YN)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * YN)	0.00013	0.00014	0.00015
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00005	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00026	-0.00026	-0.00026

OAI2BB2X0P7H7L

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P7H7L	0.00081	0.00072	0.00075	0.00080	0.02561

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P7H7L	0.00000	1.24480	2.46296

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7L	A0->YN (RR)	0.03973	0.11356	0.28827
	A1->YN (RR)	0.03992	0.11285	0.28645
	B0->YN (FR)	0.03341	0.18480	0.63308
	B1->YN (FR)	0.03211	0.18531	0.64358

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7L	A0->YN (FF)	0.03922	0.13301	0.36295
	A1->YN (FF)	0.04022	0.13621	0.36809
	B0->YN (RF)	0.02095	0.10707	0.40153
	B1->YN (RF)	0.01665	0.10471	0.39965

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	A0	0.00067	0.00092	0.00177
	A0	-0.00001	-0.00000	-0.00000
	A0	0.00000	0.00000	0.00000
	A0	0.00112	0.00137	0.00224
	A1	0.00068	0.00088	0.00158
	A1	-0.00000	-0.00000	0.00000
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00122	0.00143	0.00214
	B0	0.00077	0.00088	0.00150
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00010	0.00073
	B1	0.00069	0.00082	0.00160
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00007	0.00007	0.00007
	B1	0.00001	0.00016	0.00093

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	A0	0.00118	0.00145	0.00244
	A0	0.00004	0.00004	0.00004
	A0	-0.00000	-0.00000	0.00000
	A0	0.00071	0.00098	0.00193
	A1	0.00124	0.00151	0.00243
	A1	0.00004	0.00004	0.00004
	A1	0.00003	0.00003	0.00003
	A1	0.00070	0.00095	0.00183
	B0	0.00017	0.00025	0.00080
	B0	0.00007	0.00007	0.00007
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00093	0.00102	0.00158
	B1	0.00015	0.00025	0.00089
	B1	0.00003	0.00003	0.00004
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00082	0.00093	0.00157

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A1 * !B0 * !B1 * YN)	0.00017	0.00038	0.00116
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00091	0.00113	0.00191
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A1 * !B0 * !B1 * YN)	0.00080	0.00105	0.00192
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	0.00006	0.00031	0.00117
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * !B0 * !B1 * YN)	0.00018	0.00035	0.00101
	(A0 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00101	0.00119	0.00185
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * !B0 * !B1 * YN)	0.00087	0.00111	0.00189
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	0.00004	0.00027	0.00106
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00014	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * A1 * B1 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00012	-0.00012	-0.00011
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00023	0.00024	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * A1 * B1 * YN)	0.00010	0.00010	0.00010
	(A0 * A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * A1 * !B1 * YN)	0.00011	0.00012	0.00013
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	-0.00024	-0.00023	-0.00021
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * A1 * B0 * YN)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * YN)	-0.00014	-0.00014	-0.00013
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00027	0.00028	0.00028

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7L	(A0 * A1 * B0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * YN)	0.00014	0.00015	0.00016
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	-0.00024	-0.00023	-0.00021
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00002	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00027	-0.00027	-0.00027

OAI2BB2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1H7L	0.00081	0.00073	0.00081	0.00087	0.03035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1H7L	0.00000	1.31632	2.62088

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7L	A0->YN (RR)	0.03917	0.11396	0.29009
	A1->YN (RR)	0.03940	0.11316	0.28805
	B0->YN (FR)	0.03037	0.18212	0.63174
	B1->YN (FR)	0.02890	0.18238	0.64272

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7L	A0->YN (FF)	0.03870	0.13384	0.36647
	A1->YN (FF)	0.03971	0.13702	0.37189
	B0->YN (RF)	0.01949	0.10602	0.40400
	B1->YN (RF)	0.01213	0.10348	0.40209

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	A0	0.00075	0.00101	0.00189
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00000	0.00001	0.00001
	A0	0.00116	0.00142	0.00232
	A1	0.00076	0.00097	0.00168
	A1	-0.00001	-0.00001	0.00000
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00127	0.00148	0.00221
	B0	0.00085	0.00097	0.00170
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00008	0.00008	0.00008
	B0	-0.00002	0.00010	0.00082
	B1	0.00073	0.00090	0.00181
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00008	0.00008	0.00008
	B1	-0.00001	0.00016	0.00106

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	**A0**	0.00122	0.00150	0.00252
	A0	0.00004	0.00005	0.00005
	A0	-0.00001	-0.00001	0.00000
	A0	0.00079	0.00107	0.00204
	A1	0.00128	0.00156	0.00251
	A1	0.00005	0.00005	0.00005
	A1	0.00003	0.00003	0.00003
	A1	0.00077	0.00103	0.00194
	B0	0.00018	0.00028	0.00092
	B0	0.00008	0.00008	0.00008
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00104	0.00114	0.00179
	B1	0.00016	0.00027	0.00103
	B1	0.00003	0.00004	0.00005
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00092	0.00103	0.00179

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A1 * !B0 * !B1 * YN)	0.00020	0.00041	0.00118
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00095	0.00117	0.00194
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A1 * !B0 * !B1 * YN)	0.00081	0.00106	0.00192
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	0.00006	0.00030	0.00116
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * !B0 * !B1 * YN)	0.00021	0.00038	0.00103
	(A0 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00106	0.00123	0.00188
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * !B0 * !B1 * YN)	0.00088	0.00111	0.00189
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	0.00004	0.00026	0.00104
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00014	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * A1 * B1 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00025	0.00025	0.00027

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * A1 * B1 * YN)	0.00011	0.00011	0.00012
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * YN)	0.00013	0.00014	0.00016
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	-0.00025	-0.00024	-0.00022
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00025	-0.00024	-0.00024

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * A1 * B0 * YN)	-0.00014	-0.00013	-0.00012
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * YN)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00029	0.00030	0.00030

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7L	(A0 * A1 * B0 * YN)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * YN)	0.00016	0.00017	0.00019
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00030	-0.00029	-0.00029

OAI2BB2X1P4H7L

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1P4H7L	0.00081	0.00073	0.00087	0.00094	0.03463

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1P4H7L	0.00000	1.39524	2.79452

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7L	A0->YN (RR)	0.03890	0.11455	0.29213
	A1->YN (RR)	0.03912	0.11369	0.28984
	B0->YN (FR)	0.02839	0.18073	0.63384
	B1->YN (FR)	0.02679	0.18079	0.64368

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7L	A0->YN (FF)	0.03822	0.13360	0.36645
	A1->YN (FF)	0.03921	0.13676	0.37159
	B0->YN (RF)	0.01828	0.10409	0.40109
	B1->YN (RF)	0.00768	0.10144	0.40031

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	A0	0.00082	0.00108	0.00199
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00000	0.00001	0.00002
	A0	0.00120	0.00146	0.00240
	A1	0.00083	0.00104	0.00177
	A1	-0.00002	-0.00002	-0.00002
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00131	0.00152	0.00228
	B0	0.00091	0.00105	0.00189
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00009	0.00009	0.00009
	B0	-0.00004	0.00009	0.00092
	B1	0.00079	0.00097	0.00202
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00009	0.00009	0.00009
	B1	-0.00003	0.00016	0.00119

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	**A0**	0.00125	0.00154	0.00260
	A0	0.00006	0.00006	0.00008
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00086	0.00114	0.00213
	A1	0.00133	0.00160	0.00259
	A1	0.00005	0.00006	0.00008
	A1	0.00002	0.00002	0.00002
	A1	0.00084	0.00110	0.00203
	B0	0.00019	0.00030	0.00103
	B0	0.00009	0.00010	0.00010
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00114	0.00126	0.00199
	B1	0.00016	0.00030	0.00117
	B1	0.00005	0.00005	0.00005
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00099	0.00112	0.00200

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A1 * !B0 * !B1 * YN)	0.00022	0.00043	0.00120
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00099	0.00120	0.00197
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A1 * !B0 * !B1 * YN)	0.00082	0.00106	0.00192
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * YN)	0.00005	0.00030	0.00115
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * !B0 * !B1 * YN)	0.00023	0.00040	0.00104
	(A0 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00110	0.00127	0.00192
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * !B0 * !B1 * YN)	0.00089	0.00112	0.00189
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !B0 * !B1 * YN)	0.00003	0.00025	0.00102
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00014	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * A1 * B1 * YN)	-0.00013	-0.00012	-0.00011
	(A0 * A1 * B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00016	-0.00015	-0.00014
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00026	0.00027	0.00029

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * A1 * B1 * YN)	0.00012	0.00013	0.00014
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * YN)	0.00015	0.00016	0.00018
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	-0.00027	-0.00026	-0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * A1 * B0 * YN)	-0.00016	-0.00015	-0.00014
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * YN)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * YN)	0.00029	0.00030	0.00030
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00006	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00032	0.00032	0.00032

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7L	(A0 * A1 * B0 * YN)	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * YN)	0.00018	0.00019	0.00021
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	-0.00028	-0.00027	-0.00025
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00032	-0.00032	-0.00031

OAI2BB2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X2H7L	0.00081	0.00076	0.00097	0.00104	0.04082

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X2H7L	0.00000	1.53176	3.08723

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7L	A0->YN (RR)	0.03900	0.11576	0.29488
	A1->YN (RR)	0.03925	0.11480	0.29242
	B0->YN (FR)	0.02649	0.17926	0.63439
	B1->YN (FR)	0.02470	0.17926	0.64581

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7L	A0->YN (FF)	0.03792	0.13303	0.36466
	A1->YN (FF)	0.03887	0.13611	0.36967
	B0->YN (RF)	0.01418	0.10104	0.39495
	B1->YN (RF)	0.00205	0.09827	0.39419

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	A0	0.00093	0.00120	0.00215
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00000	0.00001	0.00002
	A0	0.00125	0.00152	0.00251
	A1	0.00094	0.00116	0.00192
	A1	-0.00003	-0.00003	-0.00001
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00137	0.00159	0.00238
	B0	0.00103	0.00120	0.00219
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00011	0.00011	0.00011
	B0	-0.00007	0.00009	0.00108
	B1	0.00084	0.00109	0.00234
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00011	0.00011	0.00011
	B1	-0.00006	0.00017	0.00140

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	A0	0.00132	0.00161	0.00273
	A0	0.00008	0.00008	0.00008
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00098	0.00125	0.00230
	A1	0.00137	0.00167	0.00272
	A1	0.00008	0.00008	0.00010
	A1	0.00002	0.00002	0.00003
	A1	0.00093	0.00120	0.00219
	B0	0.00021	0.00034	0.00121
	B0	0.00011	0.00011	0.00011
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00127	0.00144	0.00232
	B1	0.00018	0.00034	0.00139
	B1	0.00005	0.00006	0.00006
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00109	0.00127	0.00234

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A1 * !B0 * !B1 * YN)	0.00025	0.00047	0.00122
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00104	0.00125	0.00201
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A1 * !B0 * !B1 * YN)	0.00083	0.00107	0.00192
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * !B1 * YN)	0.00005	0.00029	0.00113
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * !B0 * !B1 * YN)	0.00026	0.00043	0.00107
	(A0 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00116	0.00133	0.00197
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * !B0 * !B1 * YN)	0.00090	0.00113	0.00189
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * YN)	0.00002	0.00024	0.00100
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * A1 * B1 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00029	0.00030	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * A1 * B1 * YN)	0.00015	0.00016	0.00016
	(A0 * A1 * B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * YN)	0.00018	0.00019	0.00021
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * YN)	-0.00029	-0.00028	-0.00026
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * A1 * B0 * YN)	-0.00018	-0.00017	-0.00016
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * YN)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00032	0.00033	0.00033
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00035	0.00035	0.00035

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7L	(A0 * A1 * B0 * YN)	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B0 * YN)	0.00021	0.00022	0.00024
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * YN)	-0.00031	-0.00029	-0.00027
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00035	-0.00035	-0.00035

OAI2BB2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X3H7L	0.00092	0.00084	0.00156	0.00175	0.06280

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X3H7L	0.00000	2.23384	4.48754

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7L	A0->YN (RR)	0.03894	0.11704	0.29676
	A1->YN (RR)	0.03947	0.11636	0.29515
	B0->YN (FR)	0.02735	0.17980	0.63377
	B1->YN (FR)	0.02469	0.17907	0.64359

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7L	A0->YN (FF)	0.03898	0.13705	0.37287
	A1->YN (FF)	0.04016	0.14017	0.37786
	B0->YN (RF)	0.01465	0.10277	0.39767
	B1->YN (RF)	-0.00011	0.09914	0.39569

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	A0	0.00176	0.00211	0.00342
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00001	0.00002	0.00003
	A0	0.00194	0.00229	0.00360
	A1	0.00177	0.00205	0.00307
	A1	-0.00005	-0.00004	-0.00001
	A1	-0.00002	-0.00002	0.00000
	A1	0.00209	0.00237	0.00339
	B0	0.00187	0.00211	0.00366
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00017	0.00017	0.00017
	B0	-0.00006	0.00019	0.00173
	B1	0.00150	0.00185	0.00382
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00017	0.00017	0.00017
	B1	-0.00012	0.00025	0.00220

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	A0	0.00185	0.00223	0.00379
	A0	0.00013	0.00013	0.00013
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00168	0.00205	0.00345
	A1	0.00196	0.00233	0.00381
	A1	0.00013	0.00013	0.00013
	A1	0.00002	0.00002	0.00002
	A1	0.00166	0.00201	0.00335
	B0	0.00038	0.00058	0.00196
	B0	0.00017	0.00017	0.00017
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00222	0.00249	0.00387
	B1	0.00033	0.00059	0.00226
	B1	0.00008	0.00009	0.00010
	B1	-0.00017	-0.00017	-0.00017
	B1	0.00197	0.00222	0.00390

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A1 * !B0 * !B1 * YN)	0.00050	0.00076	0.00168
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00144	0.00170	0.00263
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A1 * !B0 * !B1 * YN)	0.00101	0.00130	0.00234
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * YN)	0.00007	0.00036	0.00140
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * !B0 * !B1 * YN)	0.00051	0.00071	0.00148
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !B0 * !B1 * YN)	0.00159	0.00179	0.00256
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * !B0 * !B1 * YN)	0.00111	0.00139	0.00233
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !B0 * !B1 * YN)	0.00005	0.00032	0.00127
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00017	0.00018	0.00019
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * A1 * B1 * YN)	-0.00027	-0.00024	-0.00021
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00056	0.00056	0.00057
	(A0 * A1 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00053	0.00054	0.00054
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00031	-0.00029	-0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00051	0.00053	0.00055

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * A1 * B1 * YN)	0.00026	0.00027	0.00027
	(A0 * A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00056	-0.00056	-0.00055
	(A0 * A1 * !B1 * YN)	0.00032	0.00034	0.00037
	(A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00051	-0.00049	-0.00045
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00051	-0.00050	-0.00050

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * A1 * B0 * YN)	-0.00031	-0.00029	-0.00025
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00060	0.00061	0.00062
	(A0 * A1 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00058	0.00059	0.00059
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00068	0.00069	0.00069

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7L	(A0 * A1 * B0 * YN)	0.00031	0.00031	0.00031
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00061	-0.00060	-0.00060
	(A0 * A1 * !B0 * YN)	0.00037	0.00039	0.00043
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00055	-0.00052	-0.00046
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00069	-0.00068	-0.00068

OAI2BB2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X4H7L	0.00098	0.00091	0.00184	0.00201	0.08043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X4H7L	0.00000	2.68043	5.42986

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7L	A0->YN (RR)	0.03601	0.11320	0.29046
	A1->YN (RR)	0.03667	0.11270	0.28911
	B0->YN (FR)	0.02454	0.17742	0.63315
	B1->YN (FR)	0.02177	0.17679	0.64610

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7L	A0->YN (FF)	0.03696	0.13479	0.37017
	A1->YN (FF)	0.03830	0.13809	0.37525
	B0->YN (RF)	0.00880	0.09963	0.39305
	B1->YN (RF)	-0.00670	0.09585	0.39054

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	A0	0.00205	0.00246	0.00404
	A0	-0.00007	-0.00007	-0.00004
	A0	0.00002	0.00003	0.00005
	A0	0.00213	0.00253	0.00410
	A1	0.00207	0.00239	0.00362
	A1	-0.00007	-0.00007	-0.00003
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00231	0.00263	0.00385
	B0	0.00219	0.00250	0.00451
	B0	-0.00023	-0.00023	-0.00022
	B0	0.00022	0.00022	0.00023
	B0	-0.00014	0.00018	0.00217
	B1	0.00171	0.00216	0.00471
	B1	-0.00012	-0.00012	-0.00008
	B1	0.00022	0.00022	0.00023
	B1	-0.00019	0.00029	0.00280

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	A0	0.00201	0.00247	0.00435
	A0	0.00017	0.00018	0.00022
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00197	0.00239	0.00408
	A1	0.00216	0.00259	0.00438
	A1	0.00015	0.00018	0.00018
	A1	0.00002	0.00002	0.00002
	A1	0.00192	0.00234	0.00395
	B0	0.00041	0.00068	0.00245
	B0	0.00022	0.00023	0.00023
	B0	-0.00023	-0.00022	-0.00022
	B0	0.00267	0.00297	0.00476
	B1	0.00035	0.00069	0.00287
	B1	0.00008	0.00012	0.00013
	B1	-0.00023	-0.00022	-0.00022
	B1	0.00224	0.00259	0.00479

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A1 * !B0 * !B1 * YN)	0.00059	0.00088	0.00193
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * YN)	0.00162	0.00191	0.00296
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00004
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A1 * !B0 * !B1 * YN)	0.00107	0.00140	0.00258
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * YN)	0.00004	0.00037	0.00155
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00028	0.00028	0.00029
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * !B0 * !B1 * YN)	0.00060	0.00083	0.00169
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00006
	(A0 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !B1 * YN)	0.00180	0.00203	0.00289
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * !B0 * !B1 * YN)	0.00121	0.00152	0.00258
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * YN)	0.00001	0.00032	0.00139
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00019	0.00020	0.00021
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * A1 * B1 * YN)	-0.00034	-0.00031	-0.00027
	(A0 * A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00062	0.00062	0.00063
	(A0 * A1 * !B1 * YN)	-0.00040	-0.00040	-0.00040
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00060	0.00060	0.00060
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00038	-0.00036	-0.00031
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00058	0.00060	0.00062

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * A1 * B1 * YN)	0.00034	0.00034	0.00034
	(A0 * A1 * B1 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00062	-0.00062	-0.00062
	(A0 * A1 * !B1 * YN)	0.00041	0.00043	0.00046
	(A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00057	-0.00054	-0.00050
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00040	0.00041	0.00041
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00057	-0.00057	-0.00056

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * A1 * B0 * YN)	-0.00039	-0.00036	-0.00032
	(A0 * A1 * B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00065	0.00066	0.00066
	(A0 * A1 * !B0 * YN)	-0.00045	-0.00044	-0.00044
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00063	0.00063	0.00064
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00075	0.00076	0.00076

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7L	(A0 * A1 * B0 * YN)	0.00039	0.00039	0.00039
	(A0 * A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00065	-0.00065	-0.00065
	(A0 * A1 * !B0 * YN)	0.00046	0.00048	0.00053
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00059	-0.00056	-0.00053
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00075	-0.00075	-0.00075

OAI2BB2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X6H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X6H7L	0.00107	0.00099	0.00271	0.00280	0.12373

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X6H7L	0.00000	3.76467	7.63402

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7L	A0->YN (RR)	0.03815	0.12006	0.30579
	A1->YN (RR)	0.03889	0.11935	0.30427
	B0->YN (FR)	0.02251	0.17793	0.64249
	B1->YN (FR)	0.01940	0.17680	0.65354

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7L	A0->YN (FF)	0.03866	0.14090	0.38459
	A1->YN (FF)	0.04000	0.14406	0.38986
	B0->YN (RF)	0.00519	0.10062	0.39962
	B1->YN (RF)	-0.01129	0.09647	0.39727

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	A0	0.00303	0.00352	0.00569
	A0	-0.00011	-0.00010	-0.00010
	A0	0.00005	0.00006	0.00008
	A0	0.00279	0.00329	0.00545
	A1	0.00304	0.00342	0.00510
	A1	-0.00010	-0.00010	-0.00004
	A1	-0.00000	-0.00000	0.00002
	A1	0.00300	0.00339	0.00505
	B0	0.00305	0.00359	0.00668
	B0	-0.00034	-0.00034	-0.00034
	B0	0.00034	0.00034	0.00034
	B0	-0.00032	0.00016	0.00323
	B1	0.00234	0.00303	0.00694
	B1	-0.00018	-0.00017	-0.00016
	B1	0.00034	0.00034	0.00034
	B1	-0.00036	0.00037	0.00424

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	A0	0.00276	0.00331	0.00590
	A0	0.00025	0.00028	0.00031
	A0	-0.00006	-0.00005	-0.00003
	A0	0.00300	0.00351	0.00582
	A1	0.00289	0.00345	0.00596
	A1	0.00023	0.00028	0.00035
	A1	0.00000	0.00000	0.00001
	A1	0.00296	0.00347	0.00569
	B0	0.00062	0.00103	0.00376
	B0	0.00034	0.00034	0.00034
	B0	-0.00034	-0.00034	-0.00034
	B0	0.00393	0.00441	0.00717
	B1	0.00053	0.00105	0.00446
	B1	0.00016	0.00018	0.00019
	B1	-0.00034	-0.00034	-0.00034
	B1	0.00320	0.00375	0.00719

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A1 * !B0 * !B1 * YN)	0.00090	0.00123	0.00241
	(A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * YN)	0.00211	0.00243	0.00361
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A1 * !B0 * !B1 * YN)	0.00132	0.00169	0.00302
	(A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	0.00011	0.00048	0.00181
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00032	0.00032	0.00032
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * !B0 * !B1 * YN)	0.00091	0.00117	0.00213
	(A0 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * YN)	-0.00017	-0.00016	-0.00016
	(A0 * !B0 * !B1 * YN)	0.00232	0.00257	0.00354
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00027	0.00027	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * !B0 * !B1 * YN)	0.00146	0.00182	0.00304
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00016	0.00016	0.00017
	(A0 * !B0 * !B1 * YN)	0.00008	0.00043	0.00165
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00023	0.00024
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * A1 * B1 * YN)	-0.00052	-0.00047	-0.00040
	(A0 * A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00092	0.00093	0.00093
	(A0 * A1 * !B1 * YN)	-0.00061	-0.00060	-0.00060
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00089	0.00090	0.00090
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00057	-0.00053	-0.00045
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00086	0.00089	0.00094

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * A1 * B1 * YN)	0.00051	0.00052	0.00052
	(A0 * A1 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00092	-0.00091	-0.00090
	(A0 * A1 * !B1 * YN)	0.00062	0.00065	0.00069
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00085	-0.00081	-0.00075
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00061	0.00061	0.00062
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00086	-0.00085	-0.00084

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * A1 * B0 * YN)	-0.00057	-0.00052	-0.00046
	(A0 * A1 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00091	0.00091	0.00093
	(A0 * A1 * !B0 * YN)	-0.00066	-0.00065	-0.00065
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * YN)	0.00088	0.00088	0.00088
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00107	0.00107	0.00107

Passive power(pJ) for B1 falling (conditional):

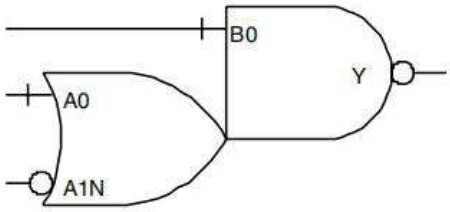
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7L	(A0 * A1 * B0 * YN)	0.00056	0.00056	0.00057
	(A0 * A1 * B0 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00090	-0.00090	-0.00089
	(A0 * A1 * !B0 * YN)	0.00067	0.00070	0.00076
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00082	-0.00078	-0.00072
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00107	-0.00106	-0.00105

OAI2XB1X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P5H7L	0.00075	0.00078	0.00082	0.02272

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P5H7L	0.00000	1.36201	2.18630

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7L	A0->Y (FR)	0.04071	0.19210	0.63819
	A1N->Y (RR)	0.05242	0.16949	0.46021
	B0->Y (FR)	0.01798	0.11682	0.45734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7L	A0->Y (RF)	0.02374	0.11150	0.40670
	A1N->Y (FF)	0.04225	0.13716	0.37186
	B0->Y (RF)	0.02030	0.10883	0.41979

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	A0	0.00108	0.00117	0.00171
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	0.00023	0.00032	0.00085
	A1N	0.00096	0.00124	0.00216
	A1N	-0.00002	-0.00002	-0.00001
	A1N	0.00004	0.00005	0.00005
	A1N	0.00119	0.00146	0.00238
	B0	0.00081	0.00097	0.00191
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00001	0.00001	0.00002
	B0	0.00014	0.00032	0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	A0	-0.00007	0.00000	0.00047
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00079	0.00086	0.00133
	A1N	0.00102	0.00132	0.00231
	A1N	0.00001	0.00002	0.00002
	A1N	-0.00005	-0.00005	-0.00004
	A1N	0.00081	0.00111	0.00210
	B0	0.00003	0.00019	0.00108
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00062	0.00079	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(A1N * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1N * B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00024	0.00025	0.00025
	(!A1N * !B0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1N * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(A1N * !B0 * Y)	0.00012	0.00013	0.00015
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1N * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(A0 * B0 * !Y)	-0.00008	0.00019	0.00111
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !Y)	0.00058	0.00085	0.00177
	(!B0 * Y)	0.00008	0.00035	0.00126
	(!B0 * Y)	0.00002	0.00002	0.00003
	(!B0 * Y)	-0.00002	-0.00002	-0.00001
	(!B0 * Y)	0.00073	0.00100	0.00191

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(A0 * B0 * !Y)	0.00084	0.00115	0.00216
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00018	0.00049	0.00150
	(!B0 * Y)	0.00073	0.00103	0.00202
	(!B0 * Y)	-0.00003	-0.00002	-0.00002
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00008	0.00038	0.00137

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(!A0 * A1N * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00001	0.00001	0.00002
	(!A0 * A1N * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

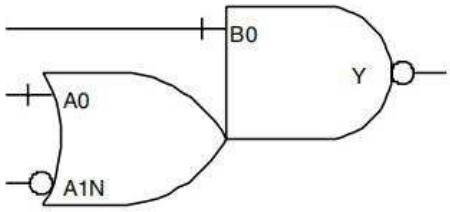
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7L	(!A0 * A1N * Y)	0.00022	0.00022	0.00023
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	-0.00010	-0.00010	-0.00009

OAI2XB1X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P7H7L	0.00078	0.00078	0.00086	0.02584

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P7H7L	0.00000	1.40910	2.25890

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7L	A0->Y (FR)	0.03763	0.18993	0.63914
	A1N->Y (RR)	0.04930	0.16780	0.46194
	B0->Y (FR)	0.01652	0.11551	0.45912

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7L	A0->Y (RF)	0.02180	0.10891	0.40545
	A1N->Y (FF)	0.04066	0.13574	0.37034
	B0->Y (RF)	0.01859	0.10650	0.41833

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	A0	0.00114	0.00124	0.00185
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00007	0.00007	0.00007
	A0	0.00023	0.00033	0.00093
	A1N	0.00101	0.00129	0.00221
	A1N	-0.00002	-0.00002	-0.00002
	A1N	0.00005	0.00005	0.00006
	A1N	0.00120	0.00148	0.00240
	B0	0.00085	0.00104	0.00208
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00001	0.00002	0.00002
	B0	0.00014	0.00033	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	A0	-0.00008	0.00000	0.00053
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00083	0.00092	0.00145
	A1N	0.00105	0.00135	0.00234
	A1N	0.00002	0.00002	0.00002
	A1N	-0.00006	-0.00005	-0.00005
	A1N	0.00087	0.00116	0.00215
	B0	0.00003	0.00020	0.00121
	B0	0.00007	0.00007	0.00007
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00066	0.00084	0.00186

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(A1N * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1N * B0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00026	0.00026	0.00027
	(!A1N * !B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1N * !B0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(A1N * !B0 * Y)	0.00013	0.00014	0.00016
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1N * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1N * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(A0 * B0 * !Y)	-0.00008	0.00019	0.00110
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !Y)	0.00058	0.00085	0.00177
	(!B0 * Y)	0.00010	0.00036	0.00127
	(!B0 * Y)	0.00001	0.00002	0.00002
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00075	0.00101	0.00192

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(A0 * B0 * !Y)	0.00086	0.00116	0.00217
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00020	0.00050	0.00151
	(!B0 * Y)	0.00074	0.00104	0.00203
	(!B0 * Y)	-0.00002	-0.00002	-0.00001
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00009	0.00039	0.00138

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(!A0 * A1N * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00001	0.00002	0.00002
	(!A0 * A1N * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

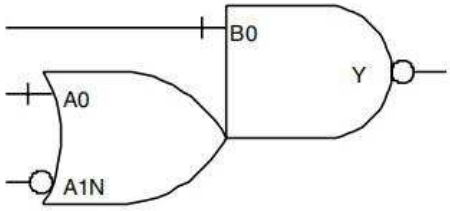
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7L	(!A0 * A1N * Y)	0.00024	0.00024	0.00024
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1H7L	0.00085	0.00077	0.00093	0.03078

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1H7L	0.00000	1.48785	2.38042

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7L	A0->Y (FR)	0.03417	0.18737	0.64048
	A1N->Y (RR)	0.04541	0.16548	0.46238
	B0->Y (FR)	0.01493	0.11396	0.46088

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7L	A0->Y (RF)	0.01996	0.10767	0.40762
	A1N->Y (FF)	0.03899	0.13549	0.37345
	B0->Y (RF)	0.01529	0.10344	0.42188

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	A0	0.00125	0.00136	0.00206
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00023	0.00035	0.00105
	A1N	0.00108	0.00136	0.00229
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00007	0.00007	0.00007
	A1N	0.00121	0.00149	0.00243
	B0	0.00092	0.00114	0.00237
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00000	0.00002	0.00003
	B0	0.00014	0.00037	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	A0	-0.00009	0.00000	0.00062
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00090	0.00101	0.00164
	A1N	0.00107	0.00137	0.00235
	A1N	0.00003	0.00003	0.00003
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00095	0.00125	0.00223
	B0	0.00002	0.00022	0.00140
	B0	0.00008	0.00008	0.00008
	B0	-0.00002	-0.00002	0.00000
	B0	0.00069	0.00091	0.00211

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(A1N * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1N * B0 * !Y)	-0.00016	-0.00016	-0.00014
	(!A1N * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00027	0.00028	0.00028
	(!A1N * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1N * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(A1N * !B0 * Y)	0.00016	0.00017	0.00018
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00028	-0.00026	-0.00025
	(!A1N * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00000
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1N * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1N * !B0 * Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(A0 * B0 * !Y)	-0.00007	0.00019	0.00110
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00058	0.00085	0.00176
	(!B0 * Y)	0.00012	0.00038	0.00128
	(!B0 * Y)	0.00002	0.00002	0.00003
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00076	0.00102	0.00192

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(A0 * B0 * !Y)	0.00088	0.00118	0.00218
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00022	0.00052	0.00153
	(!B0 * Y)	0.00075	0.00104	0.00203
	(!B0 * Y)	-0.00003	-0.00002	-0.00002
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00011	0.00040	0.00138

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(!A0 * A1N * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

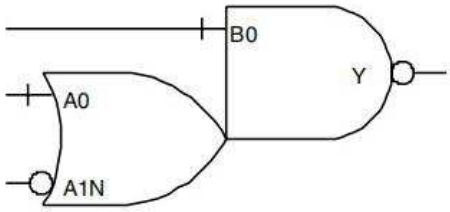
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7L	(!A0 * A1N * Y)	0.00026	0.00027	0.00027
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1P4H7L	0.00090	0.00076	0.00102	0.03512

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1P4H7L	0.00000	1.57514	2.51620

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7L	A0->Y (FR)	0.03176	0.18552	0.64203
	A1N->Y (RR)	0.04288	0.16401	0.46334
	B0->Y (FR)	0.01392	0.11293	0.46145

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7L	A0->Y (RF)	0.01841	0.10524	0.40498
	A1N->Y (FF)	0.03771	0.13422	0.37171
	B0->Y (RF)	0.01341	0.10152	0.42077

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	A0	0.00133	0.00146	0.00227
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00022	0.00036	0.00116
	A1N	0.00114	0.00142	0.00236
	A1N	-0.00004	-0.00003	-0.00003
	A1N	0.00008	0.00008	0.00008
	A1N	0.00122	0.00150	0.00244
	B0	0.00099	0.00124	0.00264
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00001	0.00002	0.00007
	B0	0.00013	0.00039	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	A0	-0.00011	0.00000	0.00071
	A0	0.00009	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00097	0.00110	0.00182
	A1N	0.00109	0.00139	0.00237
	A1N	0.00003	0.00003	0.00004
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00102	0.00132	0.00232
	B0	0.00001	0.00024	0.00158
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00076	0.00100	0.00236

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(A1N * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1N * B0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00028	0.00029	0.00030
	(!A1N * !B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1N * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(A1N * !B0 * Y)	0.00017	0.00018	0.00020
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(A1N * !B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1N * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1N * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1N * !B0 * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(A0 * B0 * !Y)	-0.00007	0.00019	0.00110
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00058	0.00085	0.00175
	(!B0 * Y)	0.00013	0.00039	0.00129
	(!B0 * Y)	0.00002	0.00003	0.00003
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00077	0.00103	0.00193

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(A0 * B0 * !Y)	0.00089	0.00120	0.00219
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00024	0.00054	0.00154
	(!B0 * Y)	0.00077	0.00105	0.00203
	(!B0 * Y)	-0.00003	-0.00003	-0.00002
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00012	0.00041	0.00139

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(!A0 * A1N * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

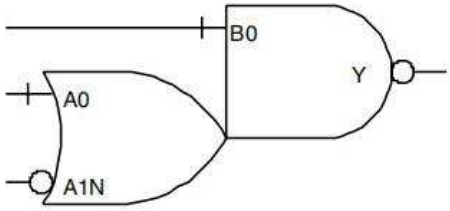
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7L	(!A0 * A1N * Y)	0.00029	0.00030	0.00030
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X2H7L	0.00101	0.00076	0.00110	0.04304

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X2H7L	0.00000	1.72511	2.74726

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7L	A0->Y (FR)	0.02975	0.18836	0.65925
	A1N->Y (RR)	0.04091	0.16776	0.48129
	B0->Y (FR)	0.01285	0.11422	0.47088

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7L	A0->Y (RF)	0.01689	0.10439	0.40821
	A1N->Y (FF)	0.03691	0.13550	0.37768
	B0->Y (RF)	0.00803	0.10108	0.42497

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	A0	0.00147	0.00164	0.00260
	A0	-0.00012	-0.00011	-0.00011
	A0	0.00011	0.00011	0.00011
	A0	0.00023	0.00039	0.00134
	A1N	0.00125	0.00153	0.00250
	A1N	-0.00005	-0.00004	-0.00004
	A1N	0.00010	0.00010	0.00010
	A1N	0.00125	0.00154	0.00250
	B0	0.00110	0.00139	0.00307
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00002	0.00003	0.00004
	B0	0.00014	0.00045	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	A0	-0.00013	0.00000	0.00086
	A0	0.00011	0.00011	0.00012
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00109	0.00125	0.00212
	A1N	0.00114	0.00145	0.00244
	A1N	0.00004	0.00004	0.00005
	A1N	-0.00010	-0.00010	-0.00010
	A1N	0.00114	0.00145	0.00244
	B0	0.00000	0.00027	0.00188
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00080	0.00111	0.00275

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(A1N * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1N * B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00032	0.00033	0.00035
	(!A1N * !B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1N * !B0 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(A1N * !B0 * Y)	0.00021	0.00022	0.00024
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00031	-0.00030	-0.00028
	(!A1N * B0 * !Y)	0.00021	0.00021	0.00022
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A1N * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1N * !B0 * Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(A0 * B0 * !Y)	-0.00007	0.00019	0.00108
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00059	0.00085	0.00175
	(!B0 * Y)	0.00016	0.00042	0.00131
	(!B0 * Y)	0.00003	0.00003	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00080	0.00106	0.00195

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(A0 * B0 * !Y)	0.00094	0.00123	0.00222
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00027	0.00057	0.00156
	(!B0 * Y)	0.00079	0.00107	0.00204
	(!B0 * Y)	-0.00004	-0.00003	-0.00003
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00014	0.00043	0.00139

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(!A0 * A1N * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00003	0.00003
	(!A0 * A1N * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

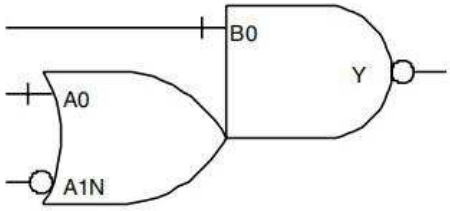
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7L	(!A0 * A1N * Y)	0.00033	0.00033	0.00033
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X3H7L	0.00170	0.00089	0.00165	0.06660

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X3H7L	0.00000	2.50115	3.97573

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7L	A0->Y (FR)	0.02990	0.18815	0.65797
	A1N->Y (RR)	0.03864	0.16728	0.48336
	B0->Y (FR)	0.01137	0.11156	0.46826

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7L	A0->Y (RF)	0.01389	0.10544	0.41229
	A1N->Y (FF)	0.03660	0.13759	0.38466
	B0->Y (RF)	0.01303	0.10298	0.42736

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	A0	0.00249	0.00274	0.00425
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	0.00043	0.00068	0.00218
	A1N	0.00193	0.00229	0.00351
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00015	0.00015	0.00016
	A1N	0.00166	0.00201	0.00324
	B0	0.00174	0.00222	0.00494
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00001	0.00004	0.00006
	B0	0.00019	0.00070	0.00340

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	A0	-0.00022	-0.00001	0.00136
	A0	0.00017	0.00017	0.00017
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00181	0.00204	0.00342
	A1N	0.00158	0.00197	0.00324
	A1N	0.00007	0.00007	0.00007
	A1N	-0.00016	-0.00015	-0.00015
	A1N	0.00187	0.00226	0.00353
	B0	-0.00003	0.00041	0.00309
	B0	0.00017	0.00017	0.00017
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00130	0.00176	0.00448

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(A1N * !B0 * Y)	-0.00038	-0.00038	-0.00038
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00051	0.00052	0.00052
	(!A1N * B0 * !Y)	-0.00029	-0.00027	-0.00023
	(!A1N * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00059	0.00060	0.00062
	(!A1N * !B0 * Y)	-0.00036	-0.00035	-0.00032
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(A1N * !B0 * Y)	0.00039	0.00041	0.00044
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00049	-0.00046	-0.00042
	(!A1N * B0 * !Y)	0.00030	0.00031	0.00031
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00058	-0.00058	-0.00058
	(!A1N * !B0 * Y)	0.00036	0.00036	0.00037
	(!A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00052	-0.00051	-0.00050

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(A0 * B0 * !Y)	-0.00009	0.00022	0.00132
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00067	0.00099	0.00209
	(!B0 * Y)	0.00026	0.00057	0.00165
	(!B0 * Y)	0.00004	0.00005	0.00006
	(!B0 * Y)	-0.00002	-0.00003	-0.00002
	(!B0 * Y)	0.00100	0.00131	0.00239

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(A0 * B0 * !Y)	0.00129	0.00166	0.00288
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !Y)	0.00053	0.00089	0.00211
	(!B0 * Y)	0.00110	0.00144	0.00261
	(!B0 * Y)	-0.00006	-0.00005	-0.00004
	(!B0 * Y)	0.00002	0.00003	0.00002
	(!B0 * Y)	0.00035	0.00069	0.00187

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(!A0 * A1N * Y)	-0.00049	-0.00048	-0.00048
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1N * Y)	0.00003	0.00004	0.00005
	(!A0 * A1N * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

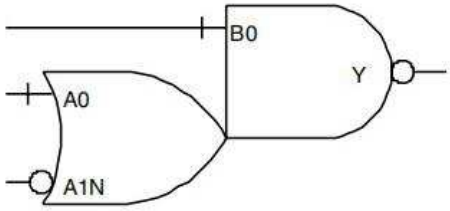
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7L	(!A0 * A1N * Y)	0.00048	0.00049	0.00049
	(!A0 * A1N * Y)	0.00000	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1N * Y)	-0.00018	-0.00018	-0.00017

OAI2XB1X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X4H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X4H7L	0.00199	0.00091	0.00196	0.08201

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X4H7L	0.00000	2.99336	4.75050

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7L	A0->Y (FR)	0.02716	0.18122	0.64219
	A1N->Y (RR)	0.03521	0.15915	0.46266
	B0->Y (FR)	0.01048	0.10784	0.45731

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7L	A0->Y (RF)	0.00843	0.09946	0.39590
	A1N->Y (FF)	0.03434	0.13246	0.37173
	B0->Y (RF)	0.00831	0.09762	0.41198

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	A0	0.00293	0.00324	0.00520
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00022	0.00022	0.00023
	A0	0.00043	0.00076	0.00271
	A1N	0.00224	0.00265	0.00409
	A1N	-0.00010	-0.00009	-0.00009
	A1N	0.00020	0.00020	0.00025
	A1N	0.00176	0.00220	0.00363
	B0	0.00205	0.00268	0.00617
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00005	0.00006	0.00008
	B0	0.00020	0.00084	0.00429

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	A0	-0.00028	-0.00000	0.00176
	A0	0.00022	0.00023	0.00023
	A0	-0.00023	-0.00022	-0.00022
	A0	0.00217	0.00247	0.00426
	A1N	0.00171	0.00217	0.00366
	A1N	0.00009	0.00009	0.00010
	A1N	-0.00021	-0.00020	-0.00020
	A1N	0.00219	0.00264	0.00413
	B0	-0.00007	0.00050	0.00392
	B0	0.00022	0.00023	0.00023
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00149	0.00211	0.00557

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(A1N * !B0 * Y)	-0.00047	-0.00047	-0.00047
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00059	0.00059	0.00059
	(!A1N * B0 * !Y)	-0.00037	-0.00034	-0.00029
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00066	0.00068	0.00071
	(!A1N * !B0 * Y)	-0.00044	-0.00042	-0.00039
	(!A1N * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00059	0.00060	0.00060

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(A1N * !B0 * Y)	0.00048	0.00050	0.00053
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00056	-0.00053	-0.00048
	(!A1N * B0 * !Y)	0.00039	0.00039	0.00040
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00066	-0.00065	-0.00060
	(!A1N * !B0 * Y)	0.00044	0.00044	0.00044
	(!A1N * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00060	-0.00059	-0.00058

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(A0 * B0 * !Y)	-0.00010	0.00025	0.00149
	(A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00071	0.00107	0.00230
	(!B0 * Y)	0.00032	0.00067	0.00188
	(!B0 * Y)	0.00005	0.00006	0.00006
	(!B0 * Y)	-0.00003	-0.00003	-0.00003
	(!B0 * Y)	0.00109	0.00144	0.00266

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(A0 * B0 * !Y)	0.00141	0.00182	0.00320
	(A0 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00060	0.00101	0.00239
	(!B0 * Y)	0.00119	0.00157	0.00289
	(!B0 * Y)	-0.00006	-0.00006	-0.00005
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00039	0.00078	0.00211

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(!A0 * A1N * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1N * Y)	0.00004	0.00005	0.00005
	(!A0 * A1N * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

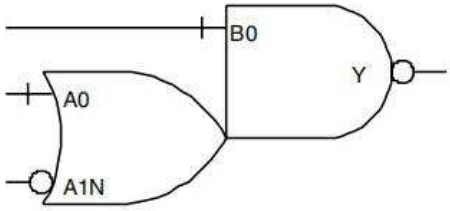
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7L	(!A0 * A1N * Y)	0.00060	0.00060	0.00061
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1N * Y)	-0.00019	-0.00018	-0.00018

OAI2XB1X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X6H7L	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X6H7L	0.00276	0.00113	0.00292	0.12350

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X6H7L	0.00000	4.18921	6.61609

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7L	A0->Y (FR)	0.02463	0.17896	0.64234
	A1N->Y (RR)	0.03663	0.16492	0.47576
	B0->Y (FR)	0.00969	0.10697	0.45902

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7L	A0->Y (RF)	0.00415	0.09877	0.39769
	A1N->Y (FF)	0.03777	0.14027	0.38779
	B0->Y (RF)	0.00529	0.09798	0.41751

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	A0	0.00407	0.00454	0.00760
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00034	0.00034	0.00034
	A0	0.00051	0.00099	0.00402
	A1N	0.00321	0.00369	0.00545
	A1N	-0.00015	-0.00015	-0.00012
	A1N	0.00030	0.00031	0.00031
	A1N	0.00254	0.00302	0.00477
	B0	0.00292	0.00388	0.00916
	B0	-0.00018	-0.00017	-0.00015
	B0	0.00007	0.00008	0.00014
	B0	0.00019	0.00119	0.00643

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	A0	-0.00039	0.00003	0.00279
	A0	0.00033	0.00034	0.00034
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00310	0.00356	0.00636
	A1N	0.00249	0.00306	0.00494
	A1N	0.00012	0.00015	0.00018
	A1N	-0.00031	-0.00031	-0.00030
	A1N	0.00321	0.00376	0.00564
	B0	-0.00014	0.00074	0.00596
	B0	0.00034	0.00034	0.00034
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00215	0.00305	0.00834

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(A1N * !B0 * Y)	-0.00061	-0.00060	-0.00060
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00000	0.00001	0.00002
	(A1N * !B0 * Y)	0.00094	0.00094	0.00095
	(!A1N * B0 * !Y)	-0.00063	-0.00059	-0.00053
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1N * B0 * !Y)	0.00088	0.00090	0.00096
	(!A1N * !B0 * Y)	-0.00064	-0.00061	-0.00058
	(!A1N * !B0 * Y)	-0.00006	-0.00004	-0.00004
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00087	0.00087	0.00088

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(A1N * !B0 * Y)	0.00062	0.00065	0.00069
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00089	-0.00086	-0.00080
	(!A1N * B0 * !Y)	0.00066	0.00067	0.00067
	(!A1N * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00086	-0.00086	-0.00085
	(!A1N * !B0 * Y)	0.00062	0.00064	0.00064
	(!A1N * !B0 * Y)	0.00004	0.00004	0.00006
	(!A1N * !B0 * Y)	-0.00001	-0.00001	0.00000
	(!A1N * !B0 * Y)	-0.00086	-0.00086	-0.00085

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(A0 * B0 * !Y)	-0.00012	0.00025	0.00160
	(A0 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !Y)	0.00100	0.00137	0.00272
	(!B0 * Y)	0.00051	0.00088	0.00221
	(!B0 * Y)	0.00006	0.00007	0.00008
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00155	0.00192	0.00325

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(A0 * B0 * !Y)	0.00212	0.00257	0.00409
	(A0 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	0.00101	0.00145	0.00297
	(!B0 * Y)	0.00178	0.00219	0.00363
	(!B0 * Y)	-0.00008	-0.00007	-0.00006
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	0.00071	0.00113	0.00259

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(!A0 * A1N * Y)	-0.00091	-0.00090	-0.00089
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00007	0.00007	0.00008
	(!A0 * A1N * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

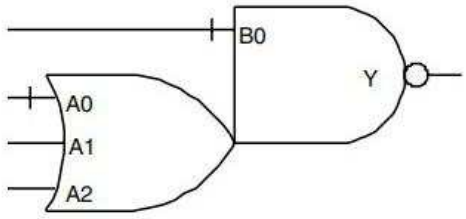
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7L	(!A0 * A1N * Y)	0.00091	0.00091	0.00091
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1N * Y)	-0.00029	-0.00029	-0.00029

OAI31X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P5H7L	0.00063	0.00064	0.00071	0.00077	0.01517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P5H7L	0.00000	0.72935	1.84082

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7L	A0->Y (FR)	0.05396	0.19519	0.59438
	A1->Y (FR)	0.05291	0.20223	0.63390
	A2->Y (FR)	0.04946	0.19909	0.63270
	B0->Y (FR)	0.01583	0.09278	0.36346

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7L	A0->Y (RF)	0.02244	0.08705	0.31200
	A1->Y (RF)	0.02169	0.08487	0.30984
	A2->Y (RF)	0.01350	0.08204	0.30696
	B0->Y (RF)	0.01951	0.08532	0.32050

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	A0	0.00104	0.00112	0.00158
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	-0.00008	0.00000	0.00046
	A1	0.00094	0.00102	0.00148
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	0.00007	0.00052
	A2	0.00084	0.00095	0.00153
	A2	-0.00003	-0.00003	0.00000
	A2	0.00007	0.00007	0.00007
	A2	-0.00003	0.00009	0.00067
	B0	0.00077	0.00096	0.00190
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00001	0.00001	0.00002
	B0	-0.00010	0.00011	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	A0	-0.00006	0.00001	0.00044
	A0	0.00008	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00104	0.00111	0.00154
	A1	-0.00006	0.00001	0.00043
	A1	0.00006	0.00006	0.00006
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00089	0.00097	0.00139
	A2	-0.00007	0.00002	0.00051
	A2	0.00000	0.00003	0.00003
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00081	0.00089	0.00139
	B0	-0.00007	0.00010	0.00105
	B0	0.00008	0.00009	0.00009
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00075	0.00091	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A1 * A2 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A1 * A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * Y)	0.00008	0.00009	0.00009
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00010	0.00010	0.00011
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * Y)	-0.00009	-0.00008	-0.00008
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00022
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00008	-0.00008
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A2 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * B0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A2 * !B0 * Y)	0.00010	0.00011	0.00013
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00018	-0.00016	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * Y)	0.00014	0.00015	0.00016
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00018	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(!A0 * !A1 * !A2 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

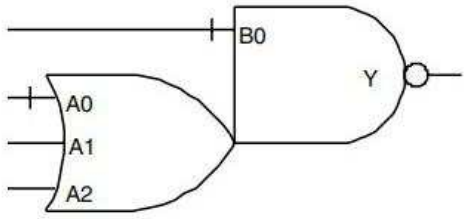
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7L	(!A0 * !A1 * !A2 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P7H7L	0.00068	0.00070	0.00075	0.00086	0.01711

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P7H7L	0.00000	0.77767	1.98259

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7L	A0->Y (FR)	0.05137	0.19313	0.59592
	A1->Y (FR)	0.05030	0.20005	0.63496
	A2->Y (FR)	0.04632	0.19638	0.63239
	B0->Y (FR)	0.01513	0.09195	0.36334

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7L	A0->Y (RF)	0.02121	0.08518	0.31075
	A1->Y (RF)	0.02052	0.08301	0.30776
	A2->Y (RF)	0.01007	0.07992	0.30491
	B0->Y (RF)	0.01857	0.08375	0.31883

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	A0	0.00115	0.00123	0.00175
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00000	0.00051
	A1	0.00103	0.00112	0.00163
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00008	0.00008	0.00008
	A1	-0.00003	0.00006	0.00057
	A2	0.00091	0.00104	0.00169
	A2	-0.00003	-0.00003	-0.00003
	A2	0.00008	0.00008	0.00008
	A2	-0.00004	0.00009	0.00074
	B0	0.00087	0.00107	0.00211
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00001	0.00002	0.00002
	B0	-0.00010	0.00013	0.00127

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	A0	-0.00007	0.00000	0.00048
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00114	0.00122	0.00170
	A1	-0.00007	0.00001	0.00047
	A1	0.00006	0.00007	0.00007
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00099	0.00107	0.00154
	A2	-0.00008	0.00002	0.00057
	A2	0.00003	0.00003	0.00004
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00089	0.00098	0.00154
	B0	-0.00009	0.00011	0.00116
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00084	0.00101	0.00191

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A1 * A2 * B0 * !Y)	0.00009	0.00010	0.00010
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * Y)	0.00011	0.00012	0.00013
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * !B0 * Y)	-0.00010	-0.00009	-0.00009
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00021	0.00022	0.00024
	(!A0 * A2 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00014
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(!A0 * !A1 * !A2 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

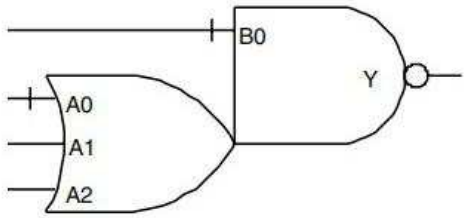
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7L	(!A0 * !A1 * !A2 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1H7L	0.00073	0.00075	0.00080	0.00087	0.02045

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1H7L	0.00000	0.85859	2.21238

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7L	A0->Y (FR)	0.04658	0.19023	0.59950
	A1->Y (FR)	0.04512	0.19666	0.63878
	A2->Y (FR)	0.04079	0.19258	0.63553
	B0->Y (FR)	0.01352	0.08976	0.36532

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7L	A0->Y (RF)	0.01952	0.08408	0.31322
	A1->Y (RF)	0.01558	0.08173	0.31096
	A2->Y (RF)	0.00428	0.07841	0.30778
	B0->Y (RF)	0.01663	0.08268	0.32365

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7L	A0	0.00126	0.00136	0.00196
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	0.00001	0.00061
	A1	0.00112	0.00122	0.00182
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	0.00007	0.00067
	A2	0.00096	0.00111	0.00188
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00010	0.00010	0.00010
	A2	-0.00004	0.00012	0.00088
	B0	0.00093	0.00118	0.00240
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00002	0.00002	0.00003
	B0	-0.00011	0.00016	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7L	A0	-0.00009	0.00000	0.00056
	A0	0.00012	0.00012	0.00012
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00123	0.00133	0.00189
	A1	-0.00010	0.00001	0.00055
	A1	0.00008	0.00008	0.00010
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00107	0.00116	0.00171
	A2	-0.00012	0.00003	0.00069
	A2	0.00004	0.00004	0.00014
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00093	0.00104	0.00171
	B0	-0.00010	0.00013	0.00136
	B0	0.00012	0.00012	0.00012
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00089	0.00109	0.00214

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A1 * A2 * B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * Y)	-0.00011	-0.00011	-0.00009
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * B0 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A1 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B0 * !Y)	0.00011	0.00012	0.00012
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * Y)	0.00013	0.00014	0.00015
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A0 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * Y)	0.00014	0.00015	0.00016
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * Y)	0.00015	0.00016	0.00018
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(!A0 * !A1 * !A2 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

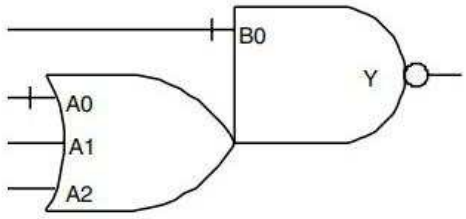
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7L	(!A0 * !A1 * !A2 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1P4H7L	0.00080	0.00085	0.00090	0.00097	0.02319

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1P4H7L	0.00000	0.94837	2.46489

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7L	A0->Y (FR)	0.04619	0.19045	0.60048
	A1->Y (FR)	0.04522	0.19726	0.64038
	A2->Y (FR)	0.04078	0.19311	0.63750
	B0->Y (FR)	0.01290	0.08958	0.36540

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7L	A0->Y (RF)	0.01910	0.08320	0.31151
	A1->Y (RF)	0.01400	0.08103	0.30924
	A2->Y (RF)	0.00243	0.07760	0.30550
	B0->Y (RF)	0.01591	0.08125	0.32080

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	A0	0.00147	0.00158	0.00225
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	0.00004	0.00070
	A1	0.00131	0.00143	0.00210
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00011	0.00011	0.00012
	A1	-0.00002	0.00010	0.00077
	A2	0.00114	0.00130	0.00217
	A2	-0.00005	-0.00005	-0.00003
	A2	0.00011	0.00011	0.00012
	A2	-0.00003	0.00014	0.00100
	B0	0.00106	0.00133	0.00271
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00002	0.00002	0.00003
	B0	-0.00014	0.00016	0.00168

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	A0	-0.00010	-0.00001	0.00061
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00140	0.00152	0.00214
	A1	-0.00009	0.00001	0.00060
	A1	0.00009	0.00010	0.00010
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00123	0.00134	0.00194
	A2	-0.00010	0.00003	0.00076
	A2	0.00003	0.00005	0.00005
	A2	-0.00012	-0.00011	-0.00011
	A2	0.00108	0.00120	0.00195
	B0	-0.00011	0.00014	0.00153
	B0	0.00014	0.00014	0.00014
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00102	0.00125	0.00244

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A1 * A2 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !A2 * !B0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00025	0.00026	0.00027
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A2 * !B0 * Y)	0.00016	0.00017	0.00019
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * !B0 * Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00016	0.00017	0.00017
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(!A0 * !A1 * !A2 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

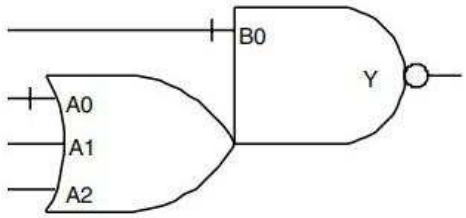
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7L	(!A0 * !A1 * !A2 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00008	-0.00008	-0.00008

OAI31X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X2H7L	0.00094	0.00092	0.00106	0.00109	0.02727

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X2H7L	0.00000	1.10265	2.89037

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7L	A0->Y (FR)	0.04358	0.18837	0.60076
	A1->Y (FR)	0.04210	0.19465	0.63914
	A2->Y (FR)	0.03842	0.19118	0.63865
	B0->Y (FR)	0.01233	0.08895	0.36554

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7L	A0->Y (RF)	0.01773	0.08039	0.30599
	A1->Y (RF)	0.00939	0.07802	0.30366
	A2->Y (RF)	-0.00220	0.07486	0.30130
	B0->Y (RF)	0.01508	0.07924	0.31670

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7L	A0	0.00168	0.00181	0.00260
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00014	0.00014	0.00014
	A0	-0.00014	-0.00001	0.00079
	A1	0.00147	0.00161	0.00241
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00014	0.00014	0.00014
	A1	-0.00006	0.00008	0.00088
	A2	0.00128	0.00148	0.00251
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00014	0.00014	0.00014
	A2	-0.00007	0.00014	0.00116
	B0	0.00125	0.00157	0.00320
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00002	0.00003	0.00003
	B0	-0.00015	0.00021	0.00201

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7L	A0	-0.00012	-0.00000	0.00073
	A0	0.00016	0.00016	0.00017
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00164	0.00178	0.00252
	A1	-0.00013	0.00001	0.00073
	A1	0.00011	0.00011	0.00014
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00142	0.00154	0.00227
	A2	-0.00012	0.00003	0.00092
	A2	0.00005	0.00006	0.00007
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00125	0.00140	0.00229
	B0	-0.00013	0.00017	0.00181
	B0	0.00016	0.00016	0.00017
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00119	0.00145	0.00285

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A1 * A2 * B0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00034	0.00034	0.00035
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00034	0.00035	0.00035
	(A1 * !A2 * B0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00034	0.00035	0.00035
	(!A1 * A2 * B0 * !Y)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00035	0.00035	0.00035
	(!A1 * A2 * !B0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00034	0.00034	0.00035
	(!A1 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A1 * A2 * B0 * !Y)	0.00015	0.00016	0.00016
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * Y)	0.00015	0.00016	0.00016
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * !A2 * !B0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00032	-0.00030	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00028	0.00028	0.00029
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A2 * B0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !Y)	0.00028	0.00029	0.00031
	(!A0 * A2 * !B0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A2 * !B0 * Y)	0.00019	0.00020	0.00021
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00037	0.00037	0.00037
	(A1 * !B0 * Y)	-0.00021	-0.00020	-0.00018
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !Y)	0.00037	0.00037	0.00037
	(A0 * !A1 * !B0 * Y)	-0.00021	-0.00019	-0.00016
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00003	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * Y)	0.00024	0.00025	0.00026
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(!A0 * !A1 * !A2 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

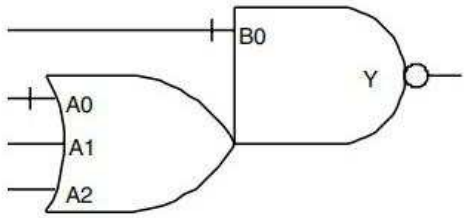
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7L	(!A0 * !A1 * !A2 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X3H7L	0.00161	0.00166	0.00212	0.00171	0.04234

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X3H7L	0.00000	1.78878	4.63669

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7L	A0->Y (FR)	0.04425	0.18834	0.59882
	A1->Y (FR)	0.04200	0.19400	0.63816
	A2->Y (FR)	0.04020	0.19212	0.63726
	B0->Y (FR)	0.01213	0.08850	0.36406

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7L	A0->Y (RF)	0.01816	0.08154	0.30943
	A1->Y (RF)	0.00848	0.07888	0.30644
	A2->Y (RF)	-0.00263	0.07663	0.30458
	B0->Y (RF)	0.01478	0.07948	0.31840

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7L	A0	0.00285	0.00306	0.00433
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00021	0.00021	0.00021
	A0	-0.00013	0.00009	0.00136
	A1	0.00251	0.00274	0.00403
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00021	0.00021	0.00021
	A1	-0.00004	0.00019	0.00147
	A2	0.00228	0.00261	0.00422
	A2	-0.00009	-0.00009	0.00000
	A2	0.00021	0.00021	0.00021
	A2	-0.00012	0.00021	0.00182
	B0	0.00208	0.00261	0.00523
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00004	0.00004	0.00006
	B0	-0.00019	0.00039	0.00327

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7L	A0	-0.00019	-0.00000	0.00117
	A0	0.00025	0.00025	0.00025
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00268	0.00293	0.00412
	A1	-0.00017	0.00002	0.00117
	A1	0.00017	0.00017	0.00017
	A1	-0.00021	-0.00021	-0.00021
	A1	0.00236	0.00257	0.00373
	A2	-0.00023	0.00007	0.00182
	A2	0.00000	0.00009	0.00018
	A2	-0.00021	-0.00021	-0.00021
	A2	0.00157	0.00244	0.00385
	B0	-0.00021	0.00028	0.00292
	B0	0.00025	0.00025	0.00025
	B0	-0.00004	-0.00004	0.00000
	B0	0.00197	0.00239	0.00466

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A1 * A2 * B0 * !Y)	-0.00024	-0.00022	-0.00020
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * Y)	-0.00024	-0.00022	-0.00020
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00056	0.00056	0.00056
	(A1 * !A2 * B0 * !Y)	-0.00024	-0.00022	-0.00020
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * B0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00021	-0.00018
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00056	0.00056	0.00056
	(!A1 * !A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00053	0.00054	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00056	-0.00055	-0.00055
	(A1 * !A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !A2 * !B0 * Y)	0.00028	0.00030	0.00033
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00051	-0.00048	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00047	0.00047	0.00047
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00046	0.00046	0.00046
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00046	0.00046	0.00047
	(A0 * !A2 * !B0 * Y)	-0.00025	-0.00023	-0.00021
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00045	0.00046	0.00046
	(!A0 * A2 * B0 * !Y)	-0.00025	-0.00023	-0.00019
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00046	0.00047	0.00049
	(!A0 * A2 * !B0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00046	0.00046	0.00046
	(!A0 * !A2 * !B0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00044	0.00044	0.00045

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00046	-0.00046	-0.00046
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00046	-0.00045	-0.00045
	(!A0 * A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00046	-0.00046	-0.00045
	(!A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00046	-0.00045	-0.00045
	(!A0 * !A2 * !B0 * Y)	0.00029	0.00030	0.00033
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00041	-0.00038	-0.00034

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00073	0.00074	0.00074
	(A1 * !B0 * Y)	-0.00043	-0.00041	-0.00038
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00048	0.00048	0.00048
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00072	0.00074	0.00074
	(A0 * !A1 * !B0 * Y)	-0.00042	-0.00039	-0.00033
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00046	0.00046	0.00047

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00074	-0.00073	-0.00073
	(A1 * !B0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00048	-0.00047	-0.00046
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00074	-0.00073	-0.00072
	(A0 * !A1 * !B0 * Y)	0.00042	0.00042	0.00042
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * !A1 * !B0 * Y)	0.00047	0.00049	0.00051
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00043	-0.00041	-0.00036

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(!A0 * !A1 * !A2 * Y)	-0.00051	-0.00050	-0.00050
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

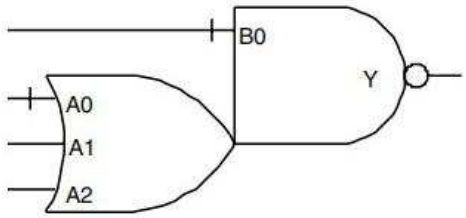
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7L	(!A0 * !A1 * !A2 * Y)	0.00051	0.00051	0.00052
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * Y)	-0.00015	-0.00015	-0.00015

OAI31X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X4H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X4H7L	0.00180	0.00202	0.00243	0.00201	0.05421

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X4H7L	0.00000	2.20529	5.78074

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7L	A0->Y (FR)	0.04136	0.18644	0.60030
	A1->Y (FR)	0.04062	0.19327	0.64037
	A2->Y (FR)	0.03724	0.19012	0.63864
	B0->Y (FR)	0.01125	0.08739	0.36502

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7L	A0->Y (RF)	0.01439	0.07928	0.30529
	A1->Y (RF)	0.00461	0.07716	0.30387
	A2->Y (RF)	-0.00748	0.07426	0.30099
	B0->Y (RF)	0.01368	0.07761	0.31655

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7L	A0	0.00351	0.00378	0.00540
	A0	-0.00033	-0.00033	-0.00032
	A0	0.00027	0.00028	0.00028
	A0	-0.00012	0.00015	0.00176
	A1	0.00313	0.00342	0.00504
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00027	0.00028	0.00028
	A1	-0.00011	0.00018	0.00180
	A2	0.00277	0.00318	0.00525
	A2	-0.00012	-0.00012	-0.00006
	A2	0.00027	0.00028	0.00028
	A2	-0.00018	0.00025	0.00230
	B0	0.00258	0.00324	0.00657
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00005	0.00005	0.00007
	B0	-0.00026	0.00048	0.00415

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7L	A0	-0.00025	-0.00001	0.00148
	A0	0.00033	0.00033	0.00033
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00328	0.00357	0.00507
	A1	-0.00024	0.00002	0.00147
	A1	0.00022	0.00023	0.00026
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00301	0.00326	0.00472
	A2	-0.00029	0.00004	0.00183
	A2	0.00006	0.00012	0.00013
	A2	-0.00028	-0.00028	-0.00027
	A2	0.00270	0.00302	0.00482
	B0	-0.00027	0.00036	0.00372
	B0	0.00033	0.00033	0.00033
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00242	0.00296	0.00584

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A1 * A2 * B0 * !Y)	-0.00031	-0.00029	-0.00026
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * Y)	-0.00033	-0.00030	-0.00028
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00054	0.00054	0.00055
	(A1 * !A2 * B0 * !Y)	-0.00031	-0.00029	-0.00026
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * B0 * !Y)	-0.00031	-0.00028	-0.00023
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00056	0.00056	0.00057
	(!A1 * A2 * !B0 * Y)	-0.00032	-0.00029	-0.00024
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00054	0.00054	0.00055
	(!A1 * !A2 * !B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00052	0.00053	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A1 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * A2 * B0 * !Y)	-0.00055	-0.00055	-0.00055
	(A1 * !B0 * Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00054	-0.00054	-0.00054
	(A1 * !A2 * B0 * !Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * B0 * !Y)	0.00031	0.00031	0.00032
	(!A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * !B0 * Y)	0.00031	0.00032	0.00032
	(!A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00054	-0.00054	-0.00053
	(!A1 * !A2 * !B0 * Y)	0.00038	0.00039	0.00041
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00049	-0.00046	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00061	0.00061	0.00061
	(A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00058	0.00059	0.00059
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00060	0.00060	0.00061
	(A0 * !A2 * !B0 * Y)	-0.00033	-0.00031	-0.00028
	(A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00057	0.00058	0.00058
	(!A0 * A2 * B0 * !Y)	-0.00032	-0.00029	-0.00024
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00060	0.00061	0.00064
	(!A0 * A2 * !B0 * Y)	-0.00033	-0.00031	-0.00029
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00058	0.00058	0.00058
	(!A0 * !A2 * !B0 * Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00055	0.00056	0.00056

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00058	-0.00058	-0.00058
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * !A2 * !B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * A2 * B0 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00059	-0.00059	-0.00059
	(!A0 * A2 * !B0 * Y)	0.00033	0.00034	0.00034
	(!A0 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !A2 * !B0 * Y)	0.00039	0.00042	0.00046
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00051	-0.00047	-0.00040

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00085	0.00085	0.00085
	(A1 * !B0 * Y)	-0.00053	-0.00050	-0.00046
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00053	0.00054	0.00054
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00083	0.00085	0.00085
	(A0 * !A1 * !B0 * Y)	-0.00052	-0.00047	-0.00041
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00053	0.00054	0.00054
	(!A0 * !A1 * !B0 * Y)	-0.00058	-0.00058	-0.00057
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00085	-0.00085	-0.00085
	(A1 * !B0 * Y)	0.00053	0.00053	0.00053
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00053	-0.00053	-0.00052
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00085	-0.00085	-0.00083
	(A0 * !A1 * !B0 * Y)	0.00052	0.00052	0.00052
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * !A1 * !B0 * Y)	0.00059	0.00060	0.00063
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(!A0 * !A1 * !A2 * Y)	-0.00063	-0.00062	-0.00061
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7L	(!A0 * !A1 * !A2 * Y)	0.00062	0.00063	0.00063
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * Y)	-0.00012	-0.00012	-0.00012

OAI32X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P5H7L	0.00063	0.00066	0.00074	0.00067	0.00079	0.01457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P5H7L	0.00000	0.78974	2.18843

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7L	A0->YN (FR)	0.06429	0.20297	0.59183
	A1->YN (FR)	0.06481	0.21106	0.63033
	A2->YN (FR)	0.05967	0.20722	0.63050
	B0->YN (FR)	0.03048	0.13971	0.47821
	B1->YN (FR)	0.02954	0.14127	0.49267

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7L	A0->YN (RF)	0.02749	0.09233	0.31130
	A1->YN (RF)	0.02650	0.09008	0.30843
	A2->YN (RF)	0.02533	0.08773	0.30640
	B0->YN (RF)	0.02136	0.08619	0.31512
	B1->YN (RF)	0.02071	0.08402	0.31218

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	A0	0.00137	0.00145	0.00187
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00011	0.00011	0.00011
	A0	-0.00003	0.00005	0.00047
	A1	0.00126	0.00135	0.00177
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	0.00003	0.00011	0.00053
	A2	0.00117	0.00127	0.00182
	A2	-0.00003	-0.00003	-0.00003
	A2	0.00011	0.00011	0.00011
	A2	0.00002	0.00014	0.00068
	B0	0.00094	0.00106	0.00169
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00003	0.00003	0.00003
	B0	-0.00012	0.00001	0.00071
	B1	0.00086	0.00101	0.00175
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00003	0.00003	0.00003
	B1	-0.00006	0.00010	0.00091

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	A0	-0.00006	0.00000	0.00041
	A0	0.00011	0.00011	0.00011
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00131	0.00139	0.00177
	A1	-0.00006	0.00001	0.00040
	A1	0.00009	0.00009	0.00009
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00117	0.00125	0.00161
	A2	-0.00007	0.00002	0.00049
	A2	0.00003	0.00003	0.00009
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00110	0.00117	0.00160
	B0	-0.00006	0.00007	0.00077
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00094	0.00107	0.00169
	B1	-0.00006	0.00009	0.00086
	B1	0.00008	0.00009	0.00009
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00083	0.00095	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7L	**(A1 * A2 * B1 * !YN)**	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7L	**(A1 * A2 * B1 * !YN)**	0.00008	0.00008	0.00008
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00010	0.00011	0.00012
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00008
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * A2 * B1 * !YN)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00020	0.00020	0.00021
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00019
	(!A0 * A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00011	0.00012	0.00013
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00025	0.00026	0.00026
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00025	0.00025	0.00026
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00026	-0.00025	-0.00025
	(A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00012	0.00013	0.00015
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A2 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00027	0.00028	0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00027	0.00028	0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00011	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P7H7L	0.00068	0.00074	0.00081	0.00072	0.00083	0.01652

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P7H7L	0.00000	0.84272	2.33323

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7L	A0->YN (FR)	0.06076	0.20059	0.59299
	A1->YN (FR)	0.06160	0.20883	0.63266
	A2->YN (FR)	0.05789	0.20542	0.63154
	B0->YN (FR)	0.02860	0.13879	0.47978
	B1->YN (FR)	0.02757	0.13976	0.49425

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7L	A0->YN (RF)	0.02587	0.09035	0.30968
	A1->YN (RF)	0.02507	0.08821	0.30708
	A2->YN (RF)	0.02370	0.08567	0.30488
	B0->YN (RF)	0.02015	0.08463	0.31374
	B1->YN (RF)	0.01937	0.08235	0.31180

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	A0	0.00150	0.00158	0.00206
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00012	0.00012	0.00012
	A0	-0.00004	0.00004	0.00052
	A1	0.00139	0.00147	0.00194
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00012	0.00012	0.00012
	A1	-0.00000	0.00009	0.00056
	A2	0.00127	0.00138	0.00200
	A2	-0.00003	-0.00003	-0.00003
	A2	0.00012	0.00012	0.00012
	A2	0.00001	0.00014	0.00075
	B0	0.00104	0.00117	0.00188
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00003	0.00004	0.00013
	B0	-0.00012	0.00002	0.00079
	B1	0.00095	0.00111	0.00194
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00003	0.00003	0.00004
	B1	-0.00007	0.00011	0.00102

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	A0	-0.00007	-0.00000	0.00046
	A0	0.00013	0.00013	0.00013
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00145	0.00153	0.00194
	A1	-0.00007	0.00001	0.00045
	A1	0.00009	0.00010	0.00011
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00131	0.00139	0.00179
	A2	-0.00007	0.00002	0.00055
	A2	0.00003	0.00005	0.00091
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00120	0.00128	0.00177
	B0	-0.00007	0.00008	0.00084
	B0	0.00013	0.00013	0.00013
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00103	0.00117	0.00186
	B1	-0.00007	0.00010	0.00095
	B1	0.00010	0.00010	0.00010
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00091	0.00104	0.00179

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7L	**(A1 * A2 * B1 * !YN)**	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B1 * !YN)	-0.00009	-0.00009	-0.00007
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7L	**(A1 * A2 * B1 * !YN)**	0.00009	0.00010	0.00010
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00010	0.00010
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00011	0.00012	0.00013
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00023	0.00023	0.00024
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00023	0.00024	0.00026
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00013	0.00013	0.00015
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00001	-0.00002	-0.00001
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00002	-0.00001
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00012	-0.00010	-0.00008
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00014	0.00015	0.00016
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00029	0.00029	0.00030
	(A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00030
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00002	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00010	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * B0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1H7L	0.00074	0.00078	0.00085	0.00079	0.00088	0.01974

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1H7L	0.00000	0.93120	2.57569

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7L	A0->YN (FR)	0.05545	0.19714	0.59615
	A1->YN (FR)	0.05434	0.20417	0.63567
	A2->YN (FR)	0.05191	0.20105	0.63316
	B0->YN (FR)	0.02627	0.13698	0.48284
	B1->YN (FR)	0.02445	0.13750	0.49666

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7L	A0->YN (RF)	0.02410	0.08921	0.31329
	A1->YN (RF)	0.02328	0.08702	0.31026
	A2->YN (RF)	0.02183	0.08423	0.30821
	B0->YN (RF)	0.01900	0.08429	0.31804
	B1->YN (RF)	0.01781	0.08154	0.31635

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7L	A0	0.00167	0.00177	0.00232
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00014	0.00015	0.00015
	A0	-0.00006	0.00003	0.00059
	A1	0.00153	0.00163	0.00219
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00014	0.00015	0.00015
	A1	-0.00001	0.00010	0.00065
	A2	0.00137	0.00152	0.00224
	A2	-0.00004	-0.00004	-0.00002
	A2	0.00014	0.00015	0.00015
	A2	-0.00001	0.00014	0.00086
	B0	0.00118	0.00133	0.00215
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00004	0.00004	0.00004
	B0	-0.00013	0.00003	0.00093
	B1	0.00104	0.00123	0.00222
	B1	-0.00008	-0.00008	0.00000
	B1	0.00004	0.00004	0.00005
	B1	-0.00009	0.00012	0.00119

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7L	A0	-0.00009	-0.00000	0.00053
	A0	0.00016	0.00016	0.00016
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00160	0.00170	0.00219
	A1	-0.00008	0.00001	0.00052
	A1	0.00012	0.00012	0.00012
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00145	0.00153	0.00201
	A2	-0.00008	0.00002	0.00065
	A2	0.00006	0.00008	0.00009
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00132	0.00141	0.00199
	B0	-0.00009	0.00008	0.00097
	B0	0.00016	0.00016	0.00016
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00113	0.00131	0.00209
	B1	-0.00008	0.00011	0.00112
	B1	0.00000	0.00008	0.00019
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00100	0.00117	0.00205

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7L	**(A1 * A2 * B1 * !YN)**	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7L	**(A1 * A2 * B1 * !YN)**	0.00011	0.00011	0.00011
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B1 * !YN)	-0.00028	-0.00028	-0.00027
	(A1 * A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * YN)	0.00011	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A1 * A2 * B1 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A1 * A2 * B0 * !B1 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00028	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00013	0.00014	0.00015
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00024	0.00024
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00023	0.00024	0.00024
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024
	(!A0 * A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00023	0.00024	0.00026
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00026
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00014	0.00015	0.00017
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00010
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00017	0.00018	0.00019
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A2 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00030	0.00030	0.00031
	(A1 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * B0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1P4H7L	0.00080	0.00085	0.00092	0.00086	0.00095	0.02256

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1P4H7L	0.00000	1.02927	2.84667

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7L	A0->YN (FR)	0.05206	0.19488	0.59777
	A1->YN (FR)	0.05088	0.20176	0.63757
	A2->YN (FR)	0.04826	0.19839	0.63451
	B0->YN (FR)	0.02458	0.13632	0.48445
	B1->YN (FR)	0.02277	0.13639	0.49829

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7L	A0->YN (RF)	0.02264	0.08721	0.31086
	A1->YN (RF)	0.02183	0.08505	0.30881
	A2->YN (RF)	0.01742	0.08217	0.30547
	B0->YN (RF)	0.01806	0.08296	0.31826
	B1->YN (RF)	0.01669	0.08009	0.31472

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	A0	0.00183	0.00193	0.00256
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00017	0.00017	0.00017
	A0	-0.00008	0.00003	0.00067
	A1	0.00167	0.00178	0.00241
	A1	-0.00010	-0.00009	-0.00009
	A1	0.00017	0.00017	0.00017
	A1	-0.00003	0.00009	0.00073
	A2	0.00148	0.00165	0.00248
	A2	-0.00005	-0.00005	-0.00003
	A2	0.00017	0.00017	0.00017
	A2	-0.00003	0.00014	0.00097
	B0	0.00131	0.00148	0.00241
	B0	-0.00010	-0.00009	-0.00009
	B0	0.00005	0.00005	0.00005
	B0	-0.00015	0.00003	0.00106
	B1	0.00115	0.00137	0.00248
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00005	0.00005	0.00005
	B1	-0.00011	0.00013	0.00135

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	A0	-0.00010	-0.00000	0.00061
	A0	0.00018	0.00018	0.00018
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00175	0.00187	0.00243
	A1	-0.00009	0.00001	0.00060
	A1	0.00014	0.00014	0.00015
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00159	0.00169	0.00223
	A2	-0.00010	0.00003	0.00075
	A2	0.00007	0.00010	0.00014
	A2	-0.00016	-0.00016	-0.00016
	A2	0.00144	0.00154	0.00221
	B0	-0.00010	0.00009	0.00109
	B0	0.00018	0.00018	0.00018
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00126	0.00145	0.00234
	B1	-0.00009	0.00012	0.00127
	B1	0.00012	0.00014	0.00014
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00110	0.00129	0.00229

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7L	**(A1 * A2 * B1 * !YN)**	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * !B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00030
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00030
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00013	-0.00011	-0.00010
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7L	**(A1 * A2 * B1 * !YN)**	0.00013	0.00013	0.00013
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00015	0.00016	0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00025	0.00026	0.00026
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00025	0.00026	0.00026
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00026
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00011
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * B1 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00025	0.00026	0.00028
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00016	0.00017	0.00019
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * YN)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00016	-0.00014	-0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * YN)	0.00016	0.00016	0.00017
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00019	0.00020	0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A2 * B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00032	-0.00031	-0.00031
	(A1 * !A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00032	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00034	0.00034	0.00034
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00034	0.00034	0.00034
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * !A2 * B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X2H7L	0.00088	0.00095	0.00104	0.00094	0.00106	0.02654

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X2H7L	0.00000	1.19751	3.30786

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7L	A0->YN (FR)	0.04908	0.19261	0.59760
	A1->YN (FR)	0.04793	0.19941	0.63735
	A2->YN (FR)	0.04525	0.19606	0.63489
	B0->YN (FR)	0.02268	0.13463	0.48461
	B1->YN (FR)	0.02113	0.13438	0.49863

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7L	A0->YN (RF)	0.02106	0.08422	0.30573
	A1->YN (RF)	0.02034	0.08205	0.30337
	A2->YN (RF)	0.01194	0.07916	0.30081
	B0->YN (RF)	0.01665	0.08028	0.31347
	B1->YN (RF)	0.01415	0.07752	0.31025

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7L	A0	0.00208	0.00221	0.00296
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00020	0.00020	0.00020
	A0	-0.00010	0.00003	0.00079
	A1	0.00189	0.00202	0.00278
	A1	-0.00012	-0.00012	-0.00009
	A1	0.00020	0.00020	0.00020
	A1	-0.00005	0.00009	0.00085
	A2	0.00167	0.00187	0.00286
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00020	0.00020	0.00020
	A2	-0.00006	0.00015	0.00114
	B0	0.00149	0.00169	0.00281
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00005	0.00006	0.00006
	B0	-0.00017	0.00005	0.00128
	B1	0.00131	0.00157	0.00290
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00006	0.00006	0.00007
	B1	-0.00013	0.00016	0.00162

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7L	A0	-0.00012	-0.00000	0.00073
	A0	0.00022	0.00022	0.00022
	A0	-0.00020	-0.00019	-0.00019
	A0	0.00201	0.00214	0.00281
	A1	-0.00011	0.00001	0.00072
	A1	0.00017	0.00017	0.00017
	A1	-0.00020	-0.00019	-0.00019
	A1	0.00181	0.00193	0.00258
	A2	-0.00011	0.00003	0.00090
	A2	0.00009	0.00011	0.00013
	A2	-0.00020	-0.00019	-0.00019
	A2	0.00163	0.00177	0.00257
	B0	-0.00012	0.00011	0.00129
	B0	0.00022	0.00022	0.00022
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00144	0.00166	0.00271
	B1	-0.00010	0.00015	0.00151
	B1	0.00016	0.00016	0.00017
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00126	0.00148	0.00267

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7L	**(A1 * A2 * B1 * !YN)**	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(A1 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00031	0.00032	0.00032
	(A1 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * B1 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00032	0.00032	0.00032
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00031	0.00032	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7L	**(A1 * A2 * B1 * !YN)**	0.00015	0.00015	0.00016
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * A2 * B0 * !B1 * !YN)	0.00015	0.00015	0.00016
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * YN)	0.00015	0.00016	0.00016
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00032	-0.00031	-0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00031	-0.00031
	(!A1 * A2 * B1 * !YN)	0.00015	0.00016	0.00016
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * B0 * !B1 * !YN)	0.00015	0.00016	0.00016
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00018	0.00019	0.00020
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !YN)	0.00028	0.00028	0.00029
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00029
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(!A0 * A2 * B1 * !YN)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B1 * !YN)	0.00028	0.00029	0.00030
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00028	0.00029	0.00031
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * A2 * B1 * !YN)	0.00017	0.00018	0.00018
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * B0 * !B1 * !YN)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * !B0 * !B1 * YN)	0.00016	0.00016	0.00017
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00019	0.00020	0.00022
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00002	-0.00003	-0.00002
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * YN)	-0.00019	-0.00017	-0.00016
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00016	-0.00013
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00023	0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A2 * B1 * !YN)	-0.00016	-0.00014	-0.00013
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00034	0.00035	0.00036
	(A1 * !A2 * B1 * !YN)	-0.00016	-0.00014	-0.00013
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00034	0.00035	0.00036
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00016	-0.00014	-0.00013
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00034	0.00035	0.00036
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A2 * B1 * !YN)	0.00016	0.00017	0.00017
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * B1 * !YN)	0.00017	0.00017	0.00017
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !A2 * B1 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * !A2 * B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !YN)	0.00038	0.00038	0.00038
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00038	0.00038	0.00038
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00038	0.00038	0.00038
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00038	-0.00038	-0.00038
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00038	-0.00038	-0.00038
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * !A2 * B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00031	0.00031	0.00032
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X3H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X3H7L	0.00162	0.00167	0.00214	0.00165	0.00190	0.04100

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X3H7L	0.00000	1.94093	5.37806

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7L	A0->YN (FR)	0.05412	0.19542	0.59606
	A1->YN (FR)	0.05002	0.20060	0.63538
	A2->YN (FR)	0.05042	0.19984	0.63526
	B0->YN (FR)	0.02483	0.13641	0.48429
	B1->YN (FR)	0.02345	0.13693	0.49833

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7L	A0->YN (RF)	0.02259	0.08675	0.30899
	A1->YN (RF)	0.02152	0.08421	0.30610
	A2->YN (RF)	0.01683	0.08249	0.30478
	B0->YN (RF)	0.01806	0.08271	0.31667
	B1->YN (RF)	0.01692	0.07978	0.31344

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7L	A0	0.00366	0.00386	0.00505
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00031	0.00031	0.00031
	A0	-0.00008	0.00014	0.00133
	A1	0.00333	0.00354	0.00474
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00031	0.00031	0.00031
	A1	0.00003	0.00025	0.00145
	A2	0.00310	0.00341	0.00493
	A2	-0.00009	-0.00009	-0.00004
	A2	0.00031	0.00031	0.00031
	A2	-0.00008	0.00025	0.00178
	B0	0.00274	0.00305	0.00480
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00008	0.00009	0.00010
	B0	-0.00009	0.00026	0.00217
	B1	0.00248	0.00288	0.00496
	B1	-0.00009	-0.00009	-0.00006
	B1	0.00008	0.00009	0.00009
	B1	-0.00007	0.00038	0.00265

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7L	A0	-0.00019	-0.00000	0.00115
	A0	0.00033	0.00033	0.00033
	A0	-0.00030	-0.00030	-0.00030
	A0	0.00348	0.00367	0.00472
	A1	-0.00017	0.00002	0.00115
	A1	0.00025	0.00026	0.00026
	A1	-0.00030	-0.00030	-0.00030
	A1	0.00308	0.00329	0.00433
	A2	-0.00021	0.00003	0.00136
	A2	0.00012	0.00017	0.00020
	A2	-0.00030	-0.00030	-0.00030
	A2	0.00299	0.00320	0.00443
	B0	-0.00019	0.00017	0.00203
	B0	0.00033	0.00033	0.00034
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00246	0.00283	0.00448
	B1	-0.00018	0.00022	0.00234
	B1	0.00023	0.00025	0.00025
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00226	0.00260	0.00446

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7L	**(A1 * A2 * B1 * !YN)**	-0.00024	-0.00022	-0.00020
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00057	0.00057	0.00057
	(A1 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00022	-0.00020
	(A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00056	0.00057	0.00057
	(A1 * !B0 * !B1 * YN)	-0.00024	-0.00022	-0.00020
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00057	0.00057	0.00058
	(A1 * !A2 * B1 * !YN)	-0.00024	-0.00022	-0.00020
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00057	0.00057	0.00057
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00024	-0.00022	-0.00020
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00057	0.00057	0.00057
	(!A1 * A2 * B1 * !YN)	-0.00023	-0.00021	-0.00018
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00057	0.00057	0.00058
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00021	-0.00018
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00057	0.00057	0.00058
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00023	-0.00021	-0.00018
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00057	0.00057	0.00057
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00056	0.00057	0.00057

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7L	**(A1 * A2 * B1 * !YN)**	0.00024	0.00024	0.00024
	(A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00057	-0.00057	-0.00056
	(A1 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00057	-0.00057	-0.00056
	(A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00057	-0.00056	-0.00056
	(A1 * !A2 * B1 * !YN)	0.00025	0.00026	0.00026
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00057	-0.00057	-0.00056
	(A1 * !A2 * B0 * !B1 * !YN)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00057	-0.00057	-0.00056
	(!A1 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00057	-0.00057	-0.00056
	(!A1 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00057	-0.00057	-0.00056
	(!A1 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00057	-0.00056	-0.00056
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00028	0.00030	0.00034
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00052	-0.00049	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * B1 * !YN)	-0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00047	0.00047	0.00048
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00047	0.00047	0.00048
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00010	-0.00009
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00047	0.00047	0.00047
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00047	0.00047	0.00047
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00047	0.00047	0.00047
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00023	-0.00021
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00046	0.00046	0.00047
	(!A0 * A2 * B1 * !YN)	-0.00025	-0.00023	-0.00019
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00046	0.00048	0.00049
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00023	-0.00019
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00046	0.00048	0.00050
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00023	-0.00021
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00046	0.00047	0.00047
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00045	0.00046	0.00046

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(A0 * A2 * B1 * !YN)	-0.00047	-0.00047	-0.00047
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00047	-0.00047	-0.00046
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00009	0.00010	0.00009
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00047	-0.00046	-0.00046
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00047	-0.00047	-0.00046
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00047	-0.00047	-0.00046
	(A0 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00046	-0.00046	-0.00045
	(!A0 * A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00046	-0.00046	-0.00046
	(!A0 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00046	-0.00046	-0.00046
	(!A0 * A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00046	-0.00046	-0.00045
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00029	0.00031	0.00034
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00041	-0.00038	-0.00034

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00076	0.00077	0.00077
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00076	0.00077	0.00077
	(A1 * !B0 * !B1 * YN)	-0.00044	-0.00041	-0.00038
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00049	0.00049	0.00050
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00075	0.00076	0.00077
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00075	0.00076	0.00077
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00043	-0.00039	-0.00033
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00049	0.00049	0.00050
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00049	0.00049	0.00050

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !YN)	-0.00077	-0.00076	-0.00076
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00077	-0.00076	-0.00076
	(A1 * !B0 * !B1 * YN)	0.00043	0.00044	0.00044
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * !B1 * YN)	-0.00049	-0.00049	-0.00048
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00077	-0.00076	-0.00075
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00077	-0.00076	-0.00075
	(A0 * !A1 * !B0 * !B1 * YN)	0.00042	0.00042	0.00043
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00049	-0.00049	-0.00048
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00048	0.00050	0.00052
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00044	-0.00042	-0.00037

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A2 * B1 * !YN)	-0.00024	-0.00022	-0.00020
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00054	0.00055	0.00057
	(A1 * !A2 * B1 * !YN)	-0.00024	-0.00022	-0.00020
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00054	0.00055	0.00057
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00024	-0.00022	-0.00019
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00054	0.00055	0.00057
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00043	-0.00042	-0.00040
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00046	-0.00045	-0.00045
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00013	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00054	-0.00054	-0.00054
	(A1 * !A2 * B1 * !YN)	0.00025	0.00026	0.00026
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00054	-0.00054	-0.00053
	(A0 * !A1 * !A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00054	-0.00054	-0.00054
	(!A0 * !A1 * !A2 * B1 * YN)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00046	0.00046	0.00047
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00067	0.00067	0.00068
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00067	0.00067	0.00068
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00067	0.00067	0.00067
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00053	-0.00051	-0.00049
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00057	-0.00056	-0.00055
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00009	0.00009	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !YN)	-0.00068	-0.00067	-0.00067
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00067	-0.00067	-0.00067
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00067	-0.00067	-0.00067
	(!A0 * !A1 * !A2 * B0 * YN)	0.00054	0.00054	0.00054
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00056	0.00056	0.00057
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00009	-0.00009	-0.00009

OAI32X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X4H7L	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X4H7L	0.00262	0.00256	0.00269	0.00272	0.00307	0.05696

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X4H7L	0.00000	3.15895	8.75371

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7L	A0->YN (FR)	0.05782	0.19859	0.59230
	A1->YN (FR)	0.05519	0.20335	0.62996
	A2->YN (FR)	0.04809	0.19725	0.62642
	B0->YN (FR)	0.02519	0.13424	0.47539
	B1->YN (FR)	0.02228	0.13341	0.48948

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7L	A0->YN (RF)	0.02542	0.09080	0.31139
	A1->YN (RF)	0.02419	0.08766	0.30793
	A2->YN (RF)	0.01760	0.08364	0.30437
	B0->YN (RF)	0.01913	0.08502	0.31706
	B1->YN (RF)	0.01695	0.08086	0.31228

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7L	A0	0.00638	0.00665	0.00828
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00043	0.00043	0.00043
	A0	0.00015	0.00042	0.00205
	A1	0.00567	0.00597	0.00769
	A1	-0.00023	-0.00023	-0.00018
	A1	0.00043	0.00043	0.00043
	A1	0.00015	0.00046	0.00217
	A2	0.00486	0.00532	0.00763
	A2	-0.00014	-0.00013	-0.00011
	A2	0.00043	0.00043	0.00043
	A2	-0.00002	0.00046	0.00275
	B0	0.00467	0.00515	0.00778
	B0	-0.00023	-0.00023	-0.00016
	B0	0.00012	0.00012	0.00013
	B0	-0.00029	0.00023	0.00319
	B1	0.00408	0.00472	0.00789
	B1	-0.00013	-0.00012	-0.00011
	B1	0.00009	0.00012	0.00014
	B1	-0.00034	0.00037	0.00391

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7L	A0	-0.00031	-0.00004	0.00166
	A0	0.00044	0.00045	0.00045
	A0	-0.00041	-0.00041	-0.00041
	A0	0.00571	0.00600	0.00751
	A1	-0.00031	0.00001	0.00166
	A1	0.00034	0.00034	0.00039
	A1	-0.00041	-0.00041	-0.00041
	A1	0.00513	0.00543	0.00692
	A2	-0.00021	0.00016	0.00218
	A2	0.00018	0.00023	0.00024
	A2	-0.00041	-0.00041	-0.00041
	A2	0.00469	0.00501	0.00683
	B0	-0.00028	0.00028	0.00315
	B0	0.00044	0.00045	0.00045
	B0	-0.00012	-0.00012	-0.00006
	B0	0.00414	0.00467	0.00714
	B1	-0.00035	0.00029	0.00359
	B1	0.00033	0.00034	0.00035
	B1	-0.00012	-0.00012	-0.00009
	B1	0.00369	0.00417	0.00696

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7L	**(A1 * A2 * B1 * !YN)**	-0.00043	-0.00039	-0.00032
	(A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00089	0.00090	0.00091
	(A1 * A2 * B0 * !B1 * !YN)	-0.00043	-0.00039	-0.00032
	(A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00089	0.00090	0.00091
	(A1 * !B0 * !B1 * YN)	-0.00044	-0.00039	-0.00033
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00089	0.00090	0.00091
	(A1 * !A2 * B1 * !YN)	-0.00044	-0.00039	-0.00031
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00089	0.00091	0.00093
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00043	-0.00039	-0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00089	0.00091	0.00094
	(!A1 * A2 * B1 * !YN)	-0.00042	-0.00036	-0.00027
	(!A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00090	0.00092	0.00094
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00042	-0.00036	-0.00027
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00090	0.00092	0.00095
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00043	-0.00037	-0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00090	0.00090	0.00092
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00054	-0.00053	-0.00053
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00085	0.00086	0.00087

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7L	**(A1 * A2 * B1 * !YN)**	0.00043	0.00043	0.00044
	(A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	-0.00089	-0.00089	-0.00089
	(A1 * A2 * B0 * !B1 * !YN)	0.00043	0.00043	0.00044
	(A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00089	-0.00089	-0.00089
	(A1 * !B0 * !B1 * YN)	0.00044	0.00044	0.00044
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00089	-0.00088	-0.00088
	(A1 * !A2 * B1 * !YN)	0.00047	0.00047	0.00048
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00089	-0.00088	-0.00087
	(A1 * !A2 * B0 * !B1 * !YN)	0.00047	0.00047	0.00048
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00089	-0.00088	-0.00088
	(!A1 * A2 * B1 * !YN)	0.00044	0.00044	0.00044
	(!A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00089	-0.00089	-0.00088
	(!A1 * A2 * B0 * !B1 * !YN)	0.00043	0.00044	0.00044
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00090	-0.00089	-0.00088
	(!A1 * A2 * !B0 * !B1 * YN)	0.00042	0.00042	0.00043
	(!A1 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00089	-0.00088	-0.00088
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00056	0.00059	0.00064
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00079	-0.00074	-0.00065

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7L	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00092	0.00092	0.00092
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00091	0.00092	0.00092
	(A0 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00087	0.00087	0.00087
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00090	0.00090	0.00091
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00090	0.00091	0.00091
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00055	-0.00050	-0.00045
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00079	0.00080	0.00081
	(!A0 * A2 * B1 * !YN)	-0.00057	-0.00052	-0.00043
	(!A0 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00080	0.00083	0.00091
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00057	-0.00052	-0.00043
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00080	0.00083	0.00091
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00058	-0.00053	-0.00048
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00079	0.00079	0.00080
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00064
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00076	0.00077	0.00077

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7L	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00091	-0.00091	-0.00090
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00091	-0.00091	-0.00090
	(A0 * A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00087	-0.00086	-0.00086
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00090	-0.00090	-0.00090
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00090	-0.00090	-0.00090
	(A0 * !A2 * !B0 * !B1 * YN)	0.00055	0.00055	0.00055
	(A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00080	-0.00078	-0.00077
	(!A0 * A2 * B1 * !YN)	0.00060	0.00060	0.00061
	(!A0 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(!A0 * A2 * B1 * !YN)	-0.00079	-0.00078	-0.00077
	(!A0 * A2 * B0 * !B1 * !YN)	0.00060	0.00060	0.00061
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00079	-0.00078	-0.00077
	(!A0 * A2 * !B0 * !B1 * YN)	0.00057	0.00058	0.00058
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00078	-0.00078	-0.00077
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00066	0.00069	0.00074
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00069	-0.00064	-0.00055

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00111	0.00112	0.00112
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00112	0.00112	0.00112
	(A1 * !B0 * !B1 * YN)	-0.00057	-0.00052	-0.00045
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00079	0.00080	0.00082
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00111	0.00112	0.00112
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00110	0.00111	0.00112
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00055	-0.00047	-0.00039
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00079	0.00080	0.00080
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00063
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00075	0.00076	0.00077

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00112	-0.00112	-0.00111
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00112	-0.00112	-0.00111
	(A1 * !B0 * !B1 * YN)	0.00056	0.00056	0.00057
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * !B1 * YN)	-0.00079	-0.00078	-0.00077
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00112	-0.00111	-0.00110
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00112	-0.00111	-0.00110
	(A0 * !A1 * !B0 * !B1 * YN)	0.00054	0.00054	0.00055
	(A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00079	-0.00078	-0.00078
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00066	0.00069	0.00074
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00069	-0.00064	-0.00056

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A2 * B1 * !YN)	-0.00040	-0.00036	-0.00029
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00089	0.00092	0.00096
	(A1 * !A2 * B1 * !YN)	-0.00040	-0.00036	-0.00029
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00090	0.00092	0.00097
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00040	-0.00036	-0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00089	0.00092	0.00097
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00068	-0.00064	-0.00060
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00027	0.00028	0.00029
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00076	-0.00074	-0.00073
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00026	0.00026	0.00027

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A2 * B1 * !YN)	0.00043	0.00044	0.00044
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00089	-0.00088	-0.00088
	(A1 * !A2 * B1 * !YN)	0.00043	0.00044	0.00044
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00089	-0.00088	-0.00087
	(A0 * !A1 * !A2 * B1 * !YN)	0.00043	0.00044	0.00044
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00089	-0.00088	-0.00087
	(!A0 * !A1 * !A2 * B1 * YN)	0.00069	0.00069	0.00070
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00075	0.00075	0.00076
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00112	0.00113	0.00113
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00112	0.00113	0.00113
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00112	0.00113	0.00113
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00091	-0.00085	-0.00082
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * YN)	0.00018	0.00019	0.00020
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00101	-0.00099	-0.00098
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00017	0.00017	0.00018

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7L	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !YN)	-0.00113	-0.00113	-0.00112
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00113	-0.00113	-0.00112
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00113	-0.00112	-0.00111
	(!A0 * !A1 * !A2 * B0 * YN)	0.00091	0.00092	0.00092
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00100	0.00100	0.00101
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00017	-0.00016	-0.00016

OAI33X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P5H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X0P5H7L	0.00074	0.00076	0.00085	0.00085	0.00086	0.00090	0.01963

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X0P5H7L	0.00000	0.79456	3.74946

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7L	A0->YN (FR)	0.06407	0.20247	0.59130
	A1->YN (FR)	0.06254	0.20933	0.63100
	A2->YN (FR)	0.05860	0.20564	0.62806
	B0->YN (FR)	0.04697	0.18287	0.57312
	B1->YN (FR)	0.04490	0.18872	0.61264
	B2->YN (FR)	0.04030	0.18450	0.61100

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7L	A0->YN (RF)	0.02962	0.09916	0.32841
	A1->YN (RF)	0.02843	0.09682	0.32560
	A2->YN (RF)	0.02680	0.09416	0.32266
	B0->YN (RF)	0.02469	0.09402	0.33422
	B1->YN (RF)	0.02323	0.09119	0.33131
	B2->YN (RF)	0.02141	0.08814	0.32804

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7L	A0	0.00210	0.00219	0.00271
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00018	0.00018	0.00018
	A0	-0.00000	0.00009	0.00062
	A1	0.00195	0.00204	0.00257
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00018	0.00018	0.00018
	A1	0.00006	0.00015	0.00068
	A2	0.00179	0.00193	0.00262
	A2	-0.00005	-0.00004	0.00000
	A2	0.00018	0.00018	0.00018
	A2	0.00005	0.00020	0.00089
	B0	0.00163	0.00175	0.00237
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00006	0.00006	0.00006
	B0	0.00002	0.00014	0.00083
	B1	0.00147	0.00159	0.00221
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00006	0.00006	0.00006
	B1	0.00005	0.00018	0.00086
	B2	0.00131	0.00146	0.00225
	B2	-0.00005	-0.00004	-0.00002
	B2	0.00006	0.00006	0.00006
	B2	0.00005	0.00022	0.00107

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7L	A0	-0.00009	-0.00001	0.00051
	A0	0.00020	0.00020	0.00020
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00196	0.00204	0.00248
	A1	-0.00008	0.00000	0.00050
	A1	0.00016	0.00016	0.00016
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00178	0.00186	0.00229
	A2	-0.00009	0.00002	0.00061
	A2	0.00012	0.00012	0.00015
	A2	-0.00018	-0.00017	-0.00017
	A2	0.00166	0.00174	0.00225
	B0	-0.00009	0.00005	0.00079
	B0	0.00020	0.00020	0.00020
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00140	0.00156	0.00222
	B1	-0.00008	0.00006	0.00078
	B1	0.00016	0.00016	0.00017
	B1	-0.00006	-0.00006	-0.00004
	B1	0.00123	0.00139	0.00204
	B2	-0.00007	0.00009	0.00091
	B2	0.00012	0.00012	0.00017
	B2	-0.00006	-0.00006	-0.00005
	B2	0.00115	0.00127	0.00200

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A1 * A2 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B2 * !YN)	-0.00012	-0.00010	-0.00009
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00010	-0.00009
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00010	-0.00009
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A1 * A2 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00015	0.00016
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00022	0.00022	0.00023
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00012	-0.00011
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * A2 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00022	0.00023	0.00024
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00022	0.00023	0.00024
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00022	0.00023	0.00024
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00012	-0.00011
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * A2 * B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00016	0.00017
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00023	0.00023
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00016	0.00017	0.00019
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B1 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00023	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B1 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00025	0.00025	0.00025
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00027
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00027
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00030	0.00031	0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P7H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X0P7H7L	0.00068	0.00070	0.00077	0.00077	0.00079	0.00084	0.01597

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X0P7H7L	0.00000	0.73449	3.49541

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7L	A0->YN (FR)	0.07208	0.20883	0.59101
	A1->YN (FR)	0.07154	0.21595	0.63010
	A2->YN (FR)	0.06712	0.21289	0.62996
	B0->YN (FR)	0.05273	0.18707	0.57113
	B1->YN (FR)	0.05081	0.19334	0.60994
	B2->YN (FR)	0.04642	0.18955	0.60993

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7L	A0->YN (RF)	0.03018	0.09520	0.30955
	A1->YN (RF)	0.02912	0.09306	0.30691
	A2->YN (RF)	0.02775	0.09069	0.30460
	B0->YN (RF)	0.02502	0.08944	0.31387
	B1->YN (RF)	0.02371	0.08691	0.31062
	B2->YN (RF)	0.02212	0.08408	0.30793

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7L	A0	0.00186	0.00194	0.00239
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00016	0.00016	0.00016
	A0	0.00001	0.00009	0.00054
	A1	0.00174	0.00182	0.00227
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00016	0.00016	0.00016
	A1	0.00007	0.00015	0.00060
	A2	0.00162	0.00173	0.00232
	A2	-0.00004	-0.00003	0.00000
	A2	0.00016	0.00016	0.00016
	A2	0.00006	0.00019	0.00077
	B0	0.00142	0.00153	0.00206
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00003	0.00006	0.00015
	B0	0.00002	0.00014	0.00072
	B1	0.00130	0.00140	0.00193
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00005	0.00005	0.00006
	B1	0.00007	0.00017	0.00075
	B2	0.00117	0.00131	0.00197
	B2	-0.00003	-0.00003	0.00000
	B2	0.00005	0.00005	0.00006
	B2	0.00006	0.00021	0.00092

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7L	A0	-0.00007	-0.00000	0.00045
	A0	0.00016	0.00016	0.00016
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00175	0.00181	0.00220
	A1	-0.00007	0.00001	0.00044
	A1	0.00013	0.00013	0.00013
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00159	0.00166	0.00203
	A2	-0.00006	0.00002	0.00052
	A2	0.00004	0.00010	0.00011
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00149	0.00157	0.00201
	B0	-0.00008	0.00005	0.00070
	B0	0.00016	0.00016	0.00016
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00125	0.00136	0.00194
	B1	-0.00007	0.00006	0.00068
	B1	0.00012	0.00013	0.00013
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00110	0.00122	0.00178
	B2	-0.00006	0.00008	0.00078
	B2	0.00009	0.00010	0.00010
	B2	-0.00005	-0.00005	-0.00004
	B2	0.00101	0.00113	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A1 * A2 * B2 * !YN)**	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A1 * A2 * B2 * !YN)**	0.00009	0.00010	0.00010
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B1 * !B2 * !YN)	0.00009	0.00010	0.00010
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00010	0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B2 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00012	0.00014
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00004	-0.00003	-0.00004
	(A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00021	0.00021	0.00022
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00004
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00021	0.00021	0.00022
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00021	0.00022
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00021	0.00021	0.00021
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00021	0.00021	0.00021
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00009
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * A2 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00021	0.00022	0.00022
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00021	0.00022	0.00022
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00009
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00004	0.00003	0.00004
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00004	0.00003	0.00004
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00013	0.00014
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00021	0.00022	0.00022
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00021	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00015	0.00017
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00017	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00028
	(A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00028
	(A1 * !A2 * B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00028
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00028
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
OAI33X0P7H7L	**(A0 * !A1 * !A2 * B1 * B2 * !YN)**	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B1 * B2 * !YN)	0.00009	0.00010	0.00010
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * B2 * !YN)	0.00009	0.00010	0.00010
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00009	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
OAI33X0P7H7L	**(A0 * !A1 * !A2 * B1 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00003	-0.00004
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00004	0.00003	0.00004
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A1 * !A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00004

OAI33X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X1H7L	0.00075	0.00077	0.00105	0.00082	0.00084	0.00084	0.01903

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X1H7L	0.00000	0.81247	3.85823

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7L	A0->YN (FR)	0.06600	0.20436	0.59333
	A1->YN (FR)	0.06480	0.21154	0.63163
	A2->YN (FR)	0.06048	0.20766	0.62957
	B0->YN (FR)	0.04737	0.18330	0.57287
	B1->YN (FR)	0.04529	0.18944	0.61201
	B2->YN (FR)	0.04015	0.18467	0.61001

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7L	A0->YN (RF)	0.02818	0.09370	0.31215
	A1->YN (RF)	0.02716	0.09160	0.30966
	A2->YN (RF)	0.02564	0.08897	0.30790
	B0->YN (RF)	0.02308	0.08826	0.31742
	B1->YN (RF)	0.02184	0.08559	0.31328
	B2->YN (RF)	0.01993	0.08240	0.31011

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7L	A0	0.00208	0.00217	0.00269
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00019	0.00019	0.00019
	A0	0.00000	0.00010	0.00062
	A1	0.00193	0.00203	0.00256
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00019	0.00019	0.00019
	A1	0.00006	0.00016	0.00069
	A2	0.00178	0.00192	0.00261
	A2	-0.00008	-0.00008	0.00000
	A2	0.00019	0.00019	0.00019
	A2	0.00005	0.00019	0.00089
	B0	0.00158	0.00170	0.00233
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00006	0.00006	0.00007
	B0	0.00002	0.00014	0.00084
	B1	0.00144	0.00155	0.00218
	B1	-0.00008	-0.00008	-0.00005
	B1	0.00006	0.00006	0.00007
	B1	0.00005	0.00018	0.00086
	B2	0.00127	0.00142	0.00221
	B2	-0.00004	-0.00004	-0.00004
	B2	0.00006	0.00006	0.00007
	B2	0.00005	0.00022	0.00107

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7L	A0	-0.00009	-0.00000	0.00052
	A0	0.00019	0.00020	0.00020
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00193	0.00202	0.00247
	A1	-0.00008	0.00001	0.00051
	A1	0.00016	0.00016	0.00016
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00177	0.00185	0.00229
	A2	-0.00009	0.00006	0.00248
	A2	0.00012	0.00012	0.00019
	A2	-0.00018	-0.00018	-0.00017
	A2	0.00165	0.00174	0.00225
	B0	-0.00009	0.00005	0.00080
	B0	0.00019	0.00020	0.00020
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00138	0.00152	0.00219
	B1	-0.00008	0.00006	0.00078
	B1	0.00016	0.00016	0.00016
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00122	0.00136	0.00201
	B2	-0.00006	0.00009	0.00093
	B2	0.00012	0.00012	0.00012
	B2	-0.00006	-0.00006	-0.00006
	B2	0.00110	0.00124	0.00198

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A1 * A2 * B2 * !YN)**	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00027	0.00028	0.00028
	(A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00027	0.00028	0.00028
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00028	0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B2 * !YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00028	0.00028
	(!A1 * A2 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A1 * A2 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00028	-0.00027	-0.00027
	(A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00028	-0.00027	-0.00027
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00028	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B2 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00016
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00023	0.00024	0.00024
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00023	0.00024	0.00024
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00023	0.00024
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00024
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00015	0.00017
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00023	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00017	0.00018	0.00019
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B1 * B2 * !YN)**	-0.00011	-0.00011	-0.00009
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A2 * B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00022	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B1 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A2 * !B1 * B2 * !YN)	0.00011	0.00012	0.00012
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00012	0.00012
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00025	0.00026	0.00026
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00028
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00026
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00027
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00025	0.00026	0.00028
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00023	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00022	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7L	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1P4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X1P4H7L	0.00080	0.00084	0.00091	0.00097	0.00090	0.00097	0.02174

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X1P4H7L	0.00000	0.89874	4.26382

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7L	A0->YN (FR)	0.06262	0.20206	0.59352
	A1->YN (FR)	0.06113	0.20895	0.63325
	A2->YN (FR)	0.05686	0.20502	0.63067
	B0->YN (FR)	0.04570	0.18264	0.57599
	B1->YN (FR)	0.04263	0.18760	0.61404
	B2->YN (FR)	0.03819	0.18410	0.61241

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7L	A0->YN (RF)	0.02668	0.09174	0.30967
	A1->YN (RF)	0.02565	0.08955	0.30781
	A2->YN (RF)	0.02407	0.08685	0.30473
	B0->YN (RF)	0.02235	0.08719	0.31623
	B1->YN (RF)	0.02062	0.08403	0.31227
	B2->YN (RF)	0.01915	0.08126	0.30978

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7L	A0	0.00229	0.00239	0.00298
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00021	0.00021	0.00022
	A0	-0.00003	0.00008	0.00068
	A1	0.00212	0.00223	0.00283
	A1	-0.00010	-0.00010	-0.00007
	A1	0.00022	0.00022	0.00022
	A1	0.00003	0.00014	0.00074
	A2	0.00194	0.00210	0.00289
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00022	0.00022	0.00022
	A2	0.00003	0.00019	0.00099
	B0	0.00177	0.00191	0.00262
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00007	0.00007	0.00008
	B0	-0.00001	0.00013	0.00092
	B1	0.00158	0.00172	0.00243
	B1	-0.00010	-0.00009	-0.00008
	B1	0.00007	0.00007	0.00008
	B1	0.00003	0.00018	0.00096
	B2	0.00141	0.00159	0.00249
	B2	-0.00005	-0.00005	-0.00004
	B2	0.00007	0.00007	0.00008
	B2	0.00002	0.00021	0.00118

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7L	A0	-0.00010	-0.00001	0.00059
	A0	0.00022	0.00023	0.00023
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00214	0.00225	0.00276
	A1	-0.00009	0.00001	0.00058
	A1	0.00018	0.00018	0.00018
	A1	-0.00021	-0.00021	-0.00021
	A1	0.00198	0.00206	0.00256
	A2	-0.00009	0.00003	0.00071
	A2	0.00014	0.00014	0.00019
	A2	-0.00022	-0.00021	-0.00020
	A2	0.00182	0.00192	0.00251
	B0	-0.00011	0.00005	0.00090
	B0	0.00022	0.00023	0.00023
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00156	0.00173	0.00248
	B1	-0.00009	0.00007	0.00088
	B1	0.00018	0.00018	0.00019
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00137	0.00153	0.00226
	B2	-0.00007	0.00010	0.00105
	B2	0.00012	0.00014	0.00014
	B2	-0.00007	-0.00007	-0.00007
	B2	0.00126	0.00142	0.00225

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A1 * A2 * B2 * !YN)**	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00029	0.00030	0.00030
	(A1 * !A2 * B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00029	0.00029	0.00030
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	0.00029	0.00029	0.00030
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00029	0.00029	0.00030
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00011	-0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00029	0.00030	0.00030
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A1 * A2 * B2 * !YN)**	0.00013	0.00013	0.00013
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00018
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00025	0.00025	0.00026
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00026	0.00028
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00024	-0.00024
	(!A0 * A2 * B2 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00024	-0.00024
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00017	0.00019
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00013	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00019	0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00020	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B1 * B2 * !YN)**	-0.00013	-0.00012	-0.00011
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B1 * B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B1 * B2 * !YN)**	0.00013	0.00013	0.00013
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00026	0.00026	0.00027
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00026	0.00027	0.00028
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00026	0.00027	0.00027
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00026	0.00027	0.00028
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00026	0.00027	0.00028
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A2 * !B0 * B2 * !YN)	0.00015	0.00015	0.00015
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00026	-0.00026	-0.00024
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * !B0 * B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00034	0.00034	0.00034
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B1 * !YN)	0.00034	0.00034	0.00034
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00034	0.00034	0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00026	-0.00024	-0.00023
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00025	-0.00023	-0.00020
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X2H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X2H7L	0.00093	0.00094	0.00103	0.00102	0.00102	0.00103	0.02567

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X2H7L	0.00000	1.04655	4.95419

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7L	A0->YN (FR)	0.05870	0.19926	0.59441
	A1->YN (FR)	0.05727	0.20603	0.63327
	A2->YN (FR)	0.05274	0.20202	0.63191
	B0->YN (FR)	0.04140	0.17948	0.57688
	B1->YN (FR)	0.03917	0.18506	0.61510
	B2->YN (FR)	0.03384	0.18089	0.61342

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7L	A0->YN (RF)	0.02462	0.08838	0.30429
	A1->YN (RF)	0.02366	0.08621	0.30262
	A2->YN (RF)	0.02208	0.08346	0.29994
	B0->YN (RF)	0.02035	0.08393	0.31100
	B1->YN (RF)	0.01902	0.08114	0.30810
	B2->YN (RF)	0.01511	0.07801	0.30497

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7L	A0	0.00258	0.00270	0.00342
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00027	0.00027	0.00027
	A0	-0.00010	0.00003	0.00075
	A1	0.00238	0.00251	0.00323
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00027	0.00027	0.00027
	A1	-0.00001	0.00012	0.00085
	A2	0.00216	0.00235	0.00331
	A2	-0.00006	-0.00006	-0.00003
	A2	0.00027	0.00027	0.00027
	A2	-0.00002	0.00017	0.00113
	B0	0.00198	0.00214	0.00301
	B0	-0.00017	-0.00016	-0.00016
	B0	0.00009	0.00009	0.00009
	B0	-0.00005	0.00012	0.00108
	B1	0.00176	0.00193	0.00280
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00008	0.00009	0.00010
	B1	-0.00002	0.00016	0.00110
	B2	0.00155	0.00176	0.00285
	B2	-0.00006	-0.00006	-0.00004
	B2	0.00009	0.00009	0.00009
	B2	-0.00002	0.00021	0.00139

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7L	A0	-0.00012	-0.00001	0.00071
	A0	0.00027	0.00027	0.00027
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00249	0.00260	0.00321
	A1	-0.00011	0.00001	0.00070
	A1	0.00022	0.00022	0.00022
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00224	0.00235	0.00295
	A2	-0.00011	0.00003	0.00086
	A2	0.00016	0.00017	0.00022
	A2	-0.00025	-0.00025	-0.00025
	A2	0.00206	0.00219	0.00291
	B0	-0.00012	0.00007	0.00107
	B0	0.00027	0.00027	0.00027
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00178	0.00196	0.00285
	B1	-0.00011	0.00008	0.00105
	B1	0.00022	0.00022	0.00022
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00157	0.00176	0.00262
	B2	-0.00009	0.00013	0.00126
	B2	0.00014	0.00016	0.00017
	B2	-0.00009	-0.00009	-0.00008
	B2	0.00141	0.00160	0.00259

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A1 * A2 * B2 * !YN)**	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00034	0.00035	0.00035
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00035	0.00035	0.00036
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(!A1 * A2 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B2 * !YN)	0.00035	0.00035	0.00035
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00013	-0.00011
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00035	0.00035	0.00035
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00035	0.00035	0.00036

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A1 * A2 * B2 * !YN)**	0.00015	0.00015	0.00016
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00035	-0.00035	-0.00034
	(A1 * A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00016
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00016	0.00015	0.00016
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * B2 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00035	-0.00035	-0.00034
	(A1 * !A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * B2 * !YN)	0.00015	0.00016	0.00016
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * B1 * !B2 * !YN)	0.00015	0.00016	0.00016
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00015	0.00016	0.00016
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00034	-0.00034
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00018	0.00019	0.00021
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00030	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(!A0 * A2 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00028	0.00028	0.00030
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00030
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00029	0.00031
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B2 * !YN)	0.00017	0.00018	0.00018
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B1 * !B2 * !YN)	0.00017	0.00018	0.00018
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00017	0.00017
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00019	0.00020	0.00022
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00002	-0.00003	-0.00002
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00034	0.00035	0.00035
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00015	-0.00013
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00023	0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B1 * B2 * !YN)**	-0.00016	-0.00015	-0.00013
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00033	0.00033	0.00034
	(A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !B2 * !YN)	0.00033	0.00034	0.00034
	(A2 * !B1 * B2 * !YN)	-0.00015	-0.00014	-0.00011
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00034	0.00034	0.00034
	(A1 * !A2 * B1 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00033	0.00033	0.00034
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00033	0.00033	0.00034
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00014	-0.00013
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00034	0.00034	0.00034
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00028	-0.00027	-0.00026
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00028	-0.00027	-0.00026
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00028	-0.00026	-0.00024
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B1 * B2 * !YN)**	0.00015	0.00015	0.00016
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00017
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A2 * !B1 * B2 * !YN)	0.00015	0.00016	0.00016
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * B1 * B2 * !YN)	0.00015	0.00015	0.00016
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00017
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A1 * !A2 * !B1 * B2 * !YN)	0.00015	0.00016	0.00016
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00034	-0.00033	-0.00033
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00030	0.00030	0.00031
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00030	0.00031	0.00031
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A2 * !B0 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B0 * B2 * !YN)	0.00030	0.00031	0.00033
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00030	0.00031	0.00032
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00030	0.00031	0.00032
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00028	-0.00026	-0.00025
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00028	-0.00027	-0.00025
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00018
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00030	-0.00029	-0.00028
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00018
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00018
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00036	0.00036	0.00037
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00037
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00036	0.00036	0.00037
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00037
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00027	-0.00024	-0.00021
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00030	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7L	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00037	-0.00036	-0.00036
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00037	-0.00036	-0.00035
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00037	-0.00036	-0.00036
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00037	-0.00036	-0.00036
	(!A0 * !A1 * !A2 * B1 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X3H7L	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X3H7L	0.00161	0.00159	0.00164	0.00171	0.00164	0.00163	0.03912

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X3H7L	0.00000	1.69407	8.05572

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7L	A0->YN (FR)	0.06211	0.20186	0.59305
	A1->YN (FR)	0.06005	0.20741	0.63070
	A2->YN (FR)	0.05315	0.20154	0.62887
	B0->YN (FR)	0.03268	0.17834	0.60872
	B1->YN (FR)	0.03985	0.18416	0.60942
	B2->YN (FR)	0.04156	0.17894	0.57187

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7L	A0->YN (RF)	0.02622	0.09128	0.30767
	A1->YN (RF)	0.02502	0.08861	0.30424
	A2->YN (RF)	0.02274	0.08488	0.30112
	B0->YN (RF)	0.01636	0.07853	0.30482
	B1->YN (RF)	0.01956	0.08260	0.30880
	B2->YN (RF)	0.02059	0.08536	0.31187

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7L	A0	0.00471	0.00489	0.00594
	A0	-0.00027	-0.00025	-0.00024
	A0	0.00041	0.00041	0.00041
	A0	0.00011	0.00029	0.00133
	A1	0.00427	0.00446	0.00557
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00041	0.00041	0.00041
	A1	0.00012	0.00032	0.00142
	A2	0.00376	0.00405	0.00555
	A2	-0.00010	-0.00009	0.00000
	A2	0.00040	0.00041	0.00041
	A2	0.00004	0.00035	0.00183
	B0	0.00272	0.00307	0.00479
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00013	0.00014	0.00019
	B0	-0.00015	0.00023	0.00213
	B1	0.00322	0.00346	0.00481
	B1	-0.00017	-0.00017	-0.00013
	B1	0.00013	0.00014	0.00014
	B1	-0.00006	0.00020	0.00170
	B2	0.00365	0.00387	0.00519
	B2	-0.00033	-0.00033	-0.00014
	B2	0.00008	0.00013	0.00014
	B2	-0.00006	0.00018	0.00166

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7L	A0	-0.00014	0.00003	0.00110
	A0	0.00040	0.00041	0.00041
	A0	-0.00038	-0.00038	-0.00038
	A0	0.00422	0.00439	0.00530
	A1	-0.00010	0.00008	0.00112
	A1	0.00033	0.00033	0.00035
	A1	-0.00038	-0.00038	-0.00037
	A1	0.00388	0.00405	0.00495
	A2	-0.00008	0.00017	0.00145
	A2	0.00008	0.00025	0.00032
	A2	-0.00039	-0.00038	-0.00038
	A2	0.00354	0.00374	0.00484
	B0	-0.00010	0.00024	0.00205
	B0	0.00022	0.00025	0.00032
	B0	-0.00014	-0.00013	-0.00011
	B0	0.00253	0.00281	0.00437
	B1	-0.00014	0.00015	0.00169
	B1	0.00029	0.00033	0.00036
	B1	-0.00014	-0.00013	-0.00012
	B1	0.00285	0.00311	0.00446
	B2	-0.00020	0.00010	0.00170
	B2	0.00040	0.00041	0.00041
	B2	-0.00014	-0.00013	-0.00008
	B2	0.00312	0.00343	0.00482

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A1 * A2 * B0 * !YN)**	-0.00028	-0.00026	-0.00022
	(A1 * A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !YN)	0.00053	0.00053	0.00054
	(A1 * A2 * !B0 * B1 * !YN)	-0.00028	-0.00026	-0.00022
	(A1 * A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * !B0 * B1 * !YN)	0.00053	0.00054	0.00055
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00028	-0.00026	-0.00022
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00054	0.00054
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00026	-0.00022
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00054
	(A1 * !A2 * B0 * !YN)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00053	0.00054	0.00055
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00053	0.00054	0.00055
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00054	0.00055
	(!A1 * A2 * B0 * !YN)	-0.00028	-0.00024	-0.00018
	(!A1 * A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !YN)	0.00053	0.00054	0.00055
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00028	-0.00024	-0.00018
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	0.00053	0.00054	0.00055
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00028	-0.00024	-0.00018
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00054	0.00055
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00024	-0.00019
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00054	0.00055
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00034	-0.00033
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00052	0.00052	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A1 * A2 * B0 * !YN)**	0.00028	0.00028	0.00028
	(A1 * A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * A2 * !B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * A2 * !B0 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * !B0 * !B1 * !B2 * YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00052	-0.00052
	(A1 * !A2 * B0 * !YN)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * !A2 * !B0 * B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00053	-0.00052	-0.00052
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00030	0.00030	0.00031
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00052	-0.00052
	(!A1 * A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !YN)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00052	-0.00052
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00036	0.00037	0.00041
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00044	-0.00038

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !YN)	0.00054	0.00054	0.00054
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * B1 * !YN)	0.00054	0.00054	0.00054
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00054	0.00054	0.00054
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00051	0.00051	0.00052
	(A0 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !YN)	0.00052	0.00053	0.00053
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	0.00052	0.00053	0.00053
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00053	0.00053
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00030	-0.00027
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00047	0.00047	0.00048
	(!A0 * A2 * B0 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	0.00047	0.00049	0.00053
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00047	0.00049	0.00053
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00047	0.00049	0.00054
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00032	-0.00029
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00047	0.00047	0.00048
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00039	-0.00038	-0.00038
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00046	0.00046	0.00047

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00051	-0.00050	-0.00050
	(A0 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00034	0.00034	0.00034
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00046	-0.00046	-0.00045
	(!A0 * A2 * B0 * !YN)	0.00036	0.00036	0.00036
	(!A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !YN)	-0.00047	-0.00046	-0.00045
	(!A0 * A2 * !B0 * B1 * !YN)	0.00036	0.00036	0.00037
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00047	-0.00046	-0.00045
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00047	-0.00046	-0.00046
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00035	0.00035	0.00035
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00046	-0.00046	-0.00046
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00040	0.00042	0.00045
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00041	-0.00038	-0.00032

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A1 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN)	0.00063	0.00063	0.00064
	(A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !YN)	0.00063	0.00063	0.00063
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	0.00063	0.00063	0.00063
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00030	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00046	0.00046	0.00047
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN)	0.00063	0.00063	0.00063
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	0.00063	0.00063	0.00063
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00063	0.00063	0.00063
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00028	-0.00023
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00046	0.00047	0.00048
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00039	-0.00038	-0.00038
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00044	0.00045	0.00045

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A1 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !YN)	-0.00001	-0.00000	0.00001
	(A1 * B0 * !YN)	-0.00064	-0.00063	-0.00062
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !YN)	-0.00063	-0.00063	-0.00062
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00063	-0.00063	-0.00063
	(A1 * !B0 * !B1 * !B2 * YN)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00045	-0.00045	-0.00045
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00045	-0.00045	-0.00045
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00040	0.00042	0.00044
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00040	-0.00037	-0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00065	0.00065	0.00066
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00065	0.00065	0.00066
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00065	0.00066	0.00066
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00065	0.00065	0.00066
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00065	0.00065	0.00066
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00065	0.00065	0.00066
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00053	-0.00049	-0.00044
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00051	-0.00046	-0.00040
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00009	0.00010	0.00011
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00057	-0.00056	-0.00055
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00066	-0.00065	-0.00065
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00066	-0.00065	-0.00065
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00066	-0.00065	-0.00065
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00065	-0.00065	-0.00065
	(!A0 * !A1 * !A2 * B1 * YN)	0.00053	0.00053	0.00053
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00057	0.00057	0.00058
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00025
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00048	0.00050	0.00054
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00054	0.00054	0.00054
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00026
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00048	0.00050	0.00054
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00054	0.00054	0.00054
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00026
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00048	0.00050	0.00054
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00054	0.00054	0.00054
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00053	-0.00051	-0.00047
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00052	-0.00049	-0.00046
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00058	-0.00056	-0.00056
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00054	-0.00054	-0.00054
	(A2 * B0 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00048	-0.00047	-0.00047
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00054	-0.00053	-0.00052
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00055	-0.00054	-0.00054
	(A1 * !A2 * B0 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00048	-0.00047	-0.00047
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00054	-0.00054	-0.00054
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00055	-0.00054	-0.00054
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00047	-0.00047	-0.00047
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00054	-0.00054	-0.00053
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00053	0.00054	0.00054
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00052	0.00053	0.00053
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00057	0.00057	0.00058
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B0 * B1 * !YN)**	-0.00028	-0.00025	-0.00021
	(A2 * B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B1 * !YN)	0.00053	0.00053	0.00053
	(A2 * B0 * !B1 * !YN)	-0.00027	-0.00024	-0.00018
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00053	0.00054	0.00055
	(A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B1 * !YN)	0.00053	0.00053	0.00054
	(A1 * !A2 * B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !YN)	0.00053	0.00053	0.00053
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00024	-0.00019
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00053	0.00054	0.00055
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00053	0.00053	0.00055
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00053	0.00053	0.00053
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00024	-0.00018
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00053	0.00054	0.00055
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00021
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00053	0.00053	0.00054
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00045	-0.00043	-0.00039
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00045	-0.00041	-0.00036
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00046	-0.00044	-0.00041
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00051	-0.00050	-0.00049
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7L	**(A2 * B0 * B1 * !YN)**	0.00027	0.00028	0.00028
	(A2 * B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00001	0.00001	0.00013
	(A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A2 * !B0 * B1 * !YN)	0.00029	0.00030	0.00030
	(A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B1 * !YN)	-0.00052	-0.00052	-0.00052
	(A1 * !A2 * B0 * B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * !A2 * !B0 * B1 * !YN)	0.00029	0.00030	0.00030
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00052	-0.00052	-0.00052
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00053	-0.00052	-0.00052
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00046	0.00046	0.00046
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00045	0.00045	0.00045
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00046	0.00046	0.00047
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00050	0.00051	0.00051
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014

OAI33X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X4H7L	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X4H7L	0.00189	0.00186	0.00193	0.00200	0.00196	0.00194	0.05028

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X4H7L	0.00000	2.09309	9.90834

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7L	A0->YN (FR)	0.05613	0.19698	0.59353
	A1->YN (FR)	0.05396	0.20242	0.63011
	A2->YN (FR)	0.04771	0.19729	0.62940
	B0->YN (FR)	0.02844	0.17541	0.61012
	B1->YN (FR)	0.03512	0.18068	0.61164
	B2->YN (FR)	0.03699	0.17560	0.57266

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7L	A0->YN (RF)	0.02358	0.08739	0.30279
	A1->YN (RF)	0.02243	0.08477	0.30024
	A2->YN (RF)	0.02031	0.08122	0.29685
	B0->YN (RF)	0.00912	0.07553	0.30247
	B1->YN (RF)	0.01753	0.07942	0.30633
	B2->YN (RF)	0.01860	0.08231	0.30903

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7L	A0	0.00555	0.00577	0.00717
	A0	-0.00035	-0.00034	-0.00030
	A0	0.00053	0.00053	0.00054
	A0	-0.00007	0.00016	0.00155
	A1	0.00499	0.00526	0.00672
	A1	-0.00024	-0.00023	-0.00019
	A1	0.00053	0.00053	0.00054
	A1	-0.00003	0.00022	0.00167
	A2	0.00441	0.00479	0.00674
	A2	-0.00012	-0.00012	-0.00009
	A2	0.00053	0.00053	0.00054
	A2	-0.00010	0.00030	0.00223
	B0	0.00316	0.00361	0.00586
	B0	-0.00014	-0.00013	-0.00008
	B0	0.00017	0.00018	0.00018
	B0	-0.00026	0.00024	0.00271
	B1	0.00375	0.00408	0.00586
	B1	-0.00025	-0.00024	-0.00017
	B1	0.00018	0.00018	0.00019
	B1	-0.00018	0.00016	0.00214
	B2	0.00428	0.00458	0.00633
	B2	-0.00033	-0.00033	-0.00032
	B2	0.00018	0.00018	0.00019
	B2	-0.00020	0.00011	0.00207

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7L	A0	-0.00021	0.00002	0.00142
	A0	0.00053	0.00054	0.00054
	A0	-0.00051	-0.00050	-0.00050
	A0	0.00510	0.00535	0.00655
	A1	-0.00018	0.00006	0.00143
	A1	0.00043	0.00044	0.00048
	A1	-0.00050	-0.00050	-0.00050
	A1	0.00470	0.00490	0.00608
	A2	-0.00014	0.00015	0.00185
	A2	0.00030	0.00033	0.00043
	A2	-0.00050	-0.00050	-0.00047
	A2	0.00427	0.00451	0.00596
	B0	-0.00018	0.00027	0.00261
	B0	0.00027	0.00033	0.00037
	B0	-0.00018	-0.00017	-0.00012
	B0	0.00297	0.00337	0.00539
	B1	-0.00022	0.00016	0.00213
	B1	0.00040	0.00044	0.00044
	B1	-0.00018	-0.00018	-0.00015
	B1	0.00337	0.00375	0.00548
	B2	-0.00026	0.00012	0.00217
	B2	0.00053	0.00054	0.00054
	B2	-0.00018	-0.00018	-0.00017
	B2	0.00381	0.00419	0.00597

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A1 * A2 * B0 * !YN)**	-0.00036	-0.00032	-0.00028
	(A1 * A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !YN)	0.00060	0.00061	0.00061
	(A1 * A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00028
	(A1 * A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !B0 * B1 * !YN)	-0.00000	0.00001	0.00001
	(A1 * A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00061
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00036	-0.00032	-0.00028
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00036	-0.00032	-0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !YN)	-0.00036	-0.00032	-0.00027
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00060	0.00061	0.00062
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00027
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00063
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00036	-0.00032	-0.00027
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00062
	(!A1 * A2 * B0 * !YN)	-0.00035	-0.00030	-0.00024
	(!A1 * A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !YN)	0.00060	0.00061	0.00062
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00035	-0.00030	-0.00024
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00063
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00035	-0.00030	-0.00024
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00063
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00035	-0.00030	-0.00024
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00061	0.00061	0.00062
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00042	-0.00042
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00060	0.00061	0.00061

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A1 * A2 * B0 * !YN)**	0.00035	0.00036	0.00036
	(A1 * A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * A2 * B0 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * A2 * !B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !B0 * !B1 * !B2 * YN)	0.00036	0.00036	0.00037
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00059	-0.00059	-0.00059
	(A1 * !A2 * B0 * !YN)	0.00038	0.00038	0.00039
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !B0 * B1 * !YN)	0.00038	0.00038	0.00039
	(A1 * !A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00038	0.00038	0.00039
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(!A1 * A2 * B0 * !YN)	0.00036	0.00036	0.00036
	(!A1 * A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !YN)	-0.00061	-0.00060	-0.00060
	(!A1 * A2 * !B0 * B1 * !YN)	0.00036	0.00036	0.00036
	(!A1 * A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00061	-0.00060	-0.00060
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00036	0.00036	0.00036
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00035	0.00035	0.00035
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00060	-0.00059	-0.00059
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00044	0.00046	0.00050
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00050	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * B0 * !YN)	-0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !YN)	0.00059	0.00059	0.00060
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * B1 * !YN)	0.00059	0.00059	0.00060
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00059	0.00059	0.00059
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00056	0.00056	0.00057
	(A0 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !YN)	0.00058	0.00058	0.00058
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	0.00057	0.00058	0.00058
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00058	0.00058	0.00058
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00038	-0.00034
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00054
	(!A0 * A2 * B0 * !YN)	-0.00043	-0.00038	-0.00032
	(!A0 * A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	0.00053	0.00056	0.00059
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00043	-0.00039	-0.00033
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00053	0.00056	0.00062
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00043	-0.00038	-0.00032
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00056	0.00059
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00039	-0.00035
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00053
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00052	0.00053	0.00053

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * !YN)	-0.00001	-0.00001	0.00000
	(A0 * A2 * B0 * !YN)	-0.00058	-0.00058	-0.00058
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00058	-0.00058	-0.00058
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00058	-0.00058	-0.00058
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00055	-0.00055	-0.00055
	(A0 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !YN)	-0.00058	-0.00058	-0.00057
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00058	-0.00058	-0.00057
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00058	-0.00058	-0.00057
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00042
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00052	-0.00051	-0.00050
	(!A0 * A2 * B0 * !YN)	0.00045	0.00045	0.00045
	(!A0 * A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !YN)	-0.00052	-0.00052	-0.00052
	(!A0 * A2 * !B0 * B1 * !YN)	0.00045	0.00045	0.00045
	(!A0 * A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00052	-0.00052	-0.00051
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00045	0.00045	0.00045
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00052	-0.00052	-0.00051
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00043	0.00043	0.00043
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00052	-0.00052	-0.00051
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00050	0.00052	0.00055
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00046	-0.00043	-0.00037

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	-0.00004	-0.00005	-0.00004
	(A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN)	0.00072	0.00072	0.00073
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !YN)	0.00072	0.00073	0.00073
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	0.00072	0.00073	0.00073
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00038	-0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00052	0.00053	0.00053
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN)	0.00071	0.00072	0.00073
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	0.00071	0.00072	0.00073
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00072	0.00072	0.00073
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00040	-0.00035	-0.00028
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00052	0.00053	0.00054
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00052	0.00052	0.00053

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A1 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !YN)	-0.00073	-0.00072	-0.00072
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00073	-0.00072	-0.00072
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00073	-0.00072	-0.00072
	(A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00043
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00052	-0.00051	-0.00051
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN)	-0.00072	-0.00072	-0.00070
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00072	-0.00072	-0.00070
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00072	-0.00072	-0.00070
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00052	-0.00051	-0.00051
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00050	0.00052	0.00055
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00045	-0.00042	-0.00037

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00075	0.00075	0.00075
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A2 * !B1 * B2 * !YN)	0.00075	0.00075	0.00075
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00075	0.00075	0.00075
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	0.00075	0.00075	0.00075
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00075	0.00075	0.00075
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00074	0.00075	0.00075
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00062	-0.00058	-0.00052
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00060	-0.00053	-0.00046
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00068	-0.00067	-0.00066
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00075	-0.00075	-0.00074
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00075	-0.00075	-0.00073
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00075	-0.00075	-0.00075
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00004	0.00004	0.00005
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00075	-0.00075	-0.00075
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00075	-0.00075	-0.00074
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00075	-0.00075	-0.00073
	(!A0 * !A1 * !A2 * B1 * YN)	0.00062	0.00063	0.00063
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00060	0.00060	0.00060
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00067	0.00068	0.00068
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00061	0.00061	0.00062
	(A2 * B0 * !B2 * !YN)	-0.00043	-0.00039	-0.00033
	(A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00002
	(A2 * B0 * !B2 * !YN)	0.00055	0.00058	0.00063
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00061	0.00061	0.00061
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00043	-0.00039	-0.00032
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00055	0.00058	0.00062
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00060
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00061	0.00061	0.00061
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00043	-0.00039	-0.00032
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00055	0.00058	0.00062
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00060
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00063	-0.00060	-0.00056
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00063	-0.00059	-0.00055
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00069	-0.00068	-0.00067
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(A2 * B0 * !B2 * !YN)	0.00045	0.00045	0.00046
	(A2 * B0 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00055	-0.00054	-0.00054
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00007	0.00007	0.00008
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00000	0.00002
	(A2 * !B0 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(A1 * !A2 * B0 * !B2 * !YN)	0.00045	0.00045	0.00046
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00055	-0.00054	-0.00054
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00007	0.00007	0.00008
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00045	0.00045	0.00046
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00054	-0.00054	-0.00054
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00063	0.00064	0.00064
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00063	0.00063	0.00063
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00068	0.00068	0.00069
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B0 * B1 * !YN)**	-0.00035	-0.00032	-0.00028
	(A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A2 * B0 * !B1 * !YN)	-0.00035	-0.00030	-0.00024
	(A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00060	0.00061	0.00062
	(A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00027
	(A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00062
	(A1 * !A2 * B0 * B1 * !YN)	-0.00036	-0.00033	-0.00028
	(A1 * !A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00035	-0.00030	-0.00024
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00060	0.00061	0.00063
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00027
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00062
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00036	-0.00033	-0.00028
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00035	-0.00030	-0.00024
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00060	0.00061	0.00062
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00027
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00062
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00055	-0.00052	-0.00047
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00054	-0.00049	-0.00043
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00055	-0.00052	-0.00049
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00061	-0.00060	-0.00059
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7L	**(A2 * B0 * B1 * !YN)**	0.00035	0.00036	0.00036
	(A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00036
	(A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00061	-0.00060	-0.00060
	(A2 * !B0 * B1 * !YN)	0.00038	0.00038	0.00039
	(A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00036
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * !B0 * B1 * !YN)	0.00038	0.00038	0.00039
	(A1 * !A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00036	0.00036	0.00036
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00038	0.00039	0.00039
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00055	0.00056	0.00056
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00056	0.00056	0.00056
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00061	0.00061	0.00061
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00013

OAO211X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X0P5H7L	0.00070	0.00067	0.00070	0.00076	0.04546

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P5H7L	0.00000	1.56470	2.58560

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7L	A0->Y (RR)	0.04214	0.17058	0.48348
	A1->Y (RR)	0.04297	0.17337	0.48960
	B0->Y (RR)	0.03964	0.17000	0.48733
	C0->Y (RR)	0.02890	0.15377	0.46059

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7L	A0->Y (FF)	0.07646	0.19525	0.48422
	A1->Y (FF)	0.07750	0.18996	0.46568
	B0->Y (FF)	0.04879	0.15796	0.42852
	C0->Y (FF)	0.06711	0.18815	0.48582

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	A0	0.00037	0.00050	0.00096
	A0	0.00004	0.00004	0.00004
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00137	0.00150	0.00196
	A1	0.00037	0.00050	0.00097
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00151	0.00164	0.00211
	B0	0.00037	0.00058	0.00131
	B0	0.00007	0.00007	0.00007
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00124	0.00144	0.00213
	C0	0.00036	0.00062	0.00151
	C0	-0.00000	0.00000	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00122	0.00144	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	A0	0.00153	0.00165	0.00222
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00006	0.00006	0.00006
	A0	0.00052	0.00064	0.00121
	A1	0.00162	0.00173	0.00227
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	0.00046	0.00058	0.00112
	B0	0.00135	0.00151	0.00218
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	0.00044	0.00061	0.00134
	C0	0.00129	0.00149	0.00230
	C0	-0.00000	0.00000	0.00000
	C0	0.00006	0.00006	0.00006
	C0	0.00040	0.00067	0.00167

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00010	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

OAO211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**C0**	**Y**
0	**0**	**x**	**0**	**0**
x	**x**	**x**	**1**	**1**
x	**1**	**0**	**0**	**0**
x	**1**	**1**	**x**	**1**
1	**x**	**0**	**0**	**0**
1	**x**	**1**	**x**	**1**

Footprint

Cell Name	Area
OAO211X0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAO211X0P7H7L	0.00071	0.00067	0.00069	0.00077	0.05153

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P7H7L	0.00000	1.61773	2.59739

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7L	A0->Y (RR)	0.04189	0.17105	0.48386
	A1->Y (RR)	0.04254	0.17371	0.49100
	B0->Y (RR)	0.03913	0.17031	0.48807
	C0->Y (RR)	0.02797	0.15321	0.46019

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7L	A0->Y (FF)	0.07767	0.19661	0.48439
	A1->Y (FF)	0.07844	0.19109	0.46542
	B0->Y (FF)	0.04894	0.15827	0.42772
	C0->Y (FF)	0.06660	0.18782	0.48467

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	A0	0.00039	0.00052	0.00099
	A0	0.00004	0.00004	0.00004
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00140	0.00153	0.00200
	A1	0.00040	0.00052	0.00101
	A1	0.00006	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00154	0.00166	0.00215
	B0	0.00039	0.00060	0.00135
	B0	0.00007	0.00007	0.00007
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00127	0.00146	0.00218
	C0	0.00037	0.00063	0.00155
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00123	0.00145	0.00226

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	A0	0.00159	0.00171	0.00230
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00006	0.00006	0.00006
	A0	0.00056	0.00069	0.00129
	A1	0.00168	0.00179	0.00234
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00006	0.00006	0.00006
	A1	0.00051	0.00063	0.00118
	B0	0.00140	0.00156	0.00225
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00001	0.00001	0.00002
	B0	0.00049	0.00066	0.00140
	C0	0.00132	0.00152	0.00237
	C0	0.00000	0.00000	0.00002
	C0	0.00006	0.00006	0.00006
	C0	0.00043	0.00070	0.00173

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00010	0.00011	0.00013
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

OAO211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1H7L	0.00071	0.00067	0.00069	0.00077	0.06155

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1H7L	0.00000	1.70701	2.61828

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7L	A0->Y (RR)	0.04120	0.17182	0.48786
	A1->Y (RR)	0.04188	0.17445	0.49462
	B0->Y (RR)	0.03846	0.17119	0.49281
	C0->Y (RR)	0.02703	0.15368	0.46260

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7L	A0->Y (FF)	0.07802	0.19928	0.49121
	A1->Y (FF)	0.07879	0.19367	0.47195
	B0->Y (FF)	0.04902	0.16041	0.43364
	C0->Y (FF)	0.06703	0.19052	0.49136

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7L	A0	0.00043	0.00056	0.00107
	A0	0.00003	0.00003	0.00004
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00144	0.00156	0.00207
	A1	0.00044	0.00057	0.00109
	A1	0.00006	0.00006	0.00006
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00157	0.00170	0.00222
	B0	0.00043	0.00064	0.00143
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00130	0.00150	0.00225
	C0	0.00041	0.00068	0.00163
	C0	-0.00001	-0.00001	0.00001
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00126	0.00149	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7L	A0	0.00163	0.00175	0.00239
	A0	-0.00004	-0.00003	-0.00002
	A0	0.00006	0.00006	0.00006
	A0	0.00059	0.00074	0.00139
	A1	0.00171	0.00183	0.00243
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00006	0.00006	0.00006
	A1	0.00054	0.00068	0.00128
	B0	0.00144	0.00160	0.00232
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00001	0.00001	0.00002
	B0	0.00052	0.00070	0.00148
	C0	0.00136	0.00156	0.00247
	C0	0.00000	0.00001	0.00003
	C0	0.00006	0.00006	0.00006
	C0	0.00047	0.00074	0.00182

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00010	0.00011	0.00013
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

OAO211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1P4H7L	0.00072	0.00067	0.00069	0.00077	0.07001

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1P4H7L	0.00000	1.80673	2.64119

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7L	A0->Y (RR)	0.04097	0.17205	0.48846
	A1->Y (RR)	0.04165	0.17467	0.49576
	B0->Y (RR)	0.03828	0.17148	0.49309
	C0->Y (RR)	0.02648	0.15360	0.46232

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7L	A0->Y (FF)	0.07852	0.20022	0.49164
	A1->Y (FF)	0.07929	0.19454	0.47223
	B0->Y (FF)	0.04927	0.16087	0.43328
	C0->Y (FF)	0.06756	0.19145	0.49161

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	A0	0.00047	0.00060	0.00114
	A0	0.00003	0.00003	0.00004
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00146	0.00159	0.00213
	A1	0.00047	0.00060	0.00116
	A1	0.00006	0.00006	0.00006
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00158	0.00173	0.00228
	B0	0.00046	0.00068	0.00151
	B0	0.00006	0.00006	0.00006
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00133	0.00153	0.00233
	C0	0.00044	0.00071	0.00170
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00129	0.00152	0.00243

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	A0	0.00167	0.00179	0.00249
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00005	0.00005	0.00005
	A0	0.00063	0.00079	0.00149
	A1	0.00175	0.00187	0.00252
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00005	0.00005	0.00005
	A1	0.00059	0.00072	0.00137
	B0	0.00147	0.00163	0.00240
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00001	0.00001	0.00002
	B0	0.00057	0.00074	0.00156
	C0	0.00139	0.00161	0.00257
	C0	0.00001	0.00001	0.00003
	C0	0.00005	0.00005	0.00005
	C0	0.00051	0.00079	0.00191

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00029	-0.00029	-0.00029

OAO211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X2H7L	0.00071	0.00067	0.00070	0.00077	0.08265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X2H7L	0.00000	1.97752	2.68336

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7L	A0->Y (RR)	0.04097	0.17302	0.49121
	A1->Y (RR)	0.04159	0.17559	0.49781
	B0->Y (RR)	0.03834	0.17268	0.49610
	C0->Y (RR)	0.02598	0.15406	0.46360

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7L	A0->Y (FF)	0.07941	0.20138	0.49129
	A1->Y (FF)	0.08016	0.19558	0.47121
	B0->Y (FF)	0.04996	0.16154	0.43206
	C0->Y (FF)	0.06839	0.19256	0.49170

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7L	A0	0.00052	0.00065	0.00125
	A0	0.00003	0.00003	0.00003
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00151	0.00164	0.00224
	A1	0.00052	0.00066	0.00127
	A1	0.00005	0.00006	0.00006
	A1	-0.00005	-0.00005	-0.00002
	A1	0.00162	0.00178	0.00239
	B0	0.00051	0.00073	0.00163
	B0	0.00005	0.00005	0.00006
	B0	-0.00000	-0.00000	0.00003
	B0	0.00136	0.00158	0.00245
	C0	0.00049	0.00076	0.00182
	C0	-0.00001	-0.00001	0.00003
	C0	-0.00000	-0.00000	0.00000
	C0	0.00133	0.00157	0.00255

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7L	A0	0.00172	0.00186	0.00265
	A0	-0.00003	-0.00003	-0.00001
	A0	0.00005	0.00005	0.00005
	A0	0.00071	0.00086	0.00165
	A1	0.00180	0.00194	0.00266
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00005	0.00005	0.00005
	A1	0.00064	0.00079	0.00152
	B0	0.00153	0.00169	0.00253
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00000	0.00000	0.00001
	B0	0.00063	0.00081	0.00169
	C0	0.00145	0.00167	0.00274
	C0	0.00000	0.00001	0.00003
	C0	0.00005	0.00005	0.00005
	C0	0.00056	0.00084	0.00205

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	0.00011	0.00011	0.00012
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00030	-0.00029	-0.00029

OAO211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X3H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X3H7L	0.00080	0.00077	0.00080	0.00088	0.12779

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X3H7L	0.00000	2.88170	3.33366

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7L	A0->Y (RR)	0.03880	0.17197	0.49144
	A1->Y (RR)	0.03987	0.17488	0.49831
	B0->Y (RR)	0.03676	0.17233	0.49625
	C0->Y (RR)	0.02459	0.15381	0.46439

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7L	A0->Y (FF)	0.07661	0.20134	0.49522
	A1->Y (FF)	0.07787	0.19604	0.47569
	B0->Y (FF)	0.04881	0.16314	0.43752
	C0->Y (FF)	0.06733	0.19400	0.49592

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7L	A0	0.00081	0.00100	0.00189
	A0	0.00003	0.00003	0.00004
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00197	0.00216	0.00305
	A1	0.00081	0.00100	0.00190
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00215	0.00233	0.00323
	B0	0.00079	0.00110	0.00239
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00000	0.00000
	B0	0.00183	0.00210	0.00337
	C0	0.00077	0.00113	0.00261
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00000	0.00000	0.00003
	C0	0.00174	0.00207	0.00349

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7L	A0	0.00228	0.00249	0.00373
	A0	-0.00004	-0.00003	-0.00000
	A0	0.00006	0.00006	0.00006
	A0	0.00106	0.00131	0.00257
	A1	0.00241	0.00260	0.00373
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00006	0.00006	0.00007
	A1	0.00099	0.00124	0.00238
	B0	0.00206	0.00228	0.00353
	B0	-0.00004	-0.00003	-0.00002
	B0	-0.00000	0.00000	0.00000
	B0	0.00099	0.00123	0.00253
	C0	0.00196	0.00228	0.00391
	C0	0.00000	0.00002	0.00006
	C0	0.00006	0.00006	0.00006
	C0	0.00094	0.00131	0.00305

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * C0 * Y)	0.00023	0.00023	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * B0 * C0 * Y)	-0.00011	-0.00011	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00009
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00013	0.00014	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00025	0.00026	0.00027
	(!A0 * A1 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00033	0.00034	0.00034
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00032	0.00033	0.00033

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00033	-0.00033	-0.00032

OAO211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X4H7L	0.00084	0.00080	0.00089	0.00095	0.16457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X4H7L	0.00000	3.44288	3.80472

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7L	A0->Y (RR)	0.03664	0.16961	0.48777
	A1->Y (RR)	0.03778	0.17250	0.49456
	B0->Y (RR)	0.03495	0.17037	0.49311
	C0->Y (RR)	0.02312	0.15213	0.46222

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7L	A0->Y (FF)	0.07586	0.20134	0.49605
	A1->Y (FF)	0.07720	0.19605	0.47603
	B0->Y (FF)	0.04866	0.16363	0.43905
	C0->Y (FF)	0.06678	0.19439	0.49624

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7L	A0	0.00098	0.00120	0.00232
	A0	0.00003	0.00003	0.00003
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00222	0.00245	0.00357
	A1	0.00097	0.00119	0.00233
	A1	0.00007	0.00008	0.00008
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00241	0.00263	0.00376
	B0	0.00097	0.00130	0.00289
	B0	0.00007	0.00007	0.00008
	B0	0.00001	0.00001	0.00001
	B0	0.00207	0.00239	0.00395
	C0	0.00092	0.00135	0.00313
	C0	-0.00003	-0.00003	0.00000
	C0	0.00000	0.00000	0.00001
	C0	0.00196	0.00236	0.00408

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7L	A0	0.00255	0.00282	0.00440
	A0	-0.00003	-0.00003	0.00000
	A0	0.00006	0.00007	0.00007
	A0	0.00123	0.00155	0.00314
	A1	0.00271	0.00295	0.00439
	A1	-0.00008	-0.00007	-0.00005
	A1	0.00006	0.00007	0.00007
	A1	0.00119	0.00148	0.00293
	B0	0.00233	0.00260	0.00415
	B0	-0.00003	-0.00003	-0.00003
	B0	-0.00001	-0.00001	0.00001
	B0	0.00118	0.00146	0.00307
	C0	0.00222	0.00261	0.00464
	C0	0.00003	0.00003	0.00007
	C0	0.00006	0.00006	0.00007
	C0	0.00112	0.00154	0.00366

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * C0 * Y)	0.00025	0.00025	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00016	-0.00010
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * C0 * Y)	-0.00014	-0.00013	-0.00010
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00028	0.00029
	(!A0 * A1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00028	0.00029
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00035	0.00035	0.00036

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7L	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00035	-0.00035	-0.00034

OAOI211X0P5H7L

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P5H7L	0.00069	0.00066	0.00068	0.00079	0.01510

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P5H7L	0.00000	0.74528	2.36333

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7L	A0->YN (FR)	0.05772	0.20641	0.63666
	A1->YN (FR)	0.05883	0.19956	0.59774
	B0->YN (FR)	0.03326	0.14507	0.49004
	C0->YN (FR)	0.04871	0.19881	0.63441

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7L	A0->YN (RF)	0.02303	0.08689	0.31095
	A1->YN (RF)	0.02336	0.08896	0.31329
	B0->YN (RF)	0.01998	0.08603	0.32158
	C0->YN (RF)	-0.00317	0.05372	0.23197

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	A0	0.00107	0.00114	0.00156
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00008	0.00008	0.00008
	A0	0.00004	0.00011	0.00053
	A1	0.00116	0.00123	0.00165
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00008	0.00008	0.00008
	A1	-0.00002	0.00005	0.00046
	B0	0.00090	0.00100	0.00159
	B0	-0.00005	-0.00006	-0.00005
	B0	0.00000	0.00003	0.00003
	B0	-0.00003	0.00008	0.00074
	C0	0.00055	0.00073	0.00165
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00008	0.00008	0.00008
	C0	-0.00009	0.00010	0.00101

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	A0	-0.00007	0.00000	0.00040
	A0	0.00005	0.00006	0.00006
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00095	0.00102	0.00142
	A1	-0.00006	0.00000	0.00042
	A1	0.00008	0.00008	0.00008
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00107	0.00116	0.00158
	B0	-0.00007	0.00006	0.00073
	B0	0.00008	0.00008	0.00008
	B0	-0.00003	-0.00003	-0.00000
	B0	0.00080	0.00093	0.00156
	C0	-0.00008	0.00008	0.00094
	C0	0.00001	0.00001	0.00003
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00081	0.00094	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00021	0.00021	0.00021
	(A1 * !B0 * C0 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * YN)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	-0.00010	-0.00009	-0.00006
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00022
	(!A1 * !B0 * C0 * !YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * !YN)	0.00011	0.00011	0.00012
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * YN)	0.00011	0.00012	0.00012
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00013	0.00014	0.00015
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00026	0.00026	0.00026
	(!A0 * B0 * C0 * !YN)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * !YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * B0 * C0 * !YN)	0.00008	0.00008	0.00009
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * C0 * !YN)	0.00009	0.00010	0.00010
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * YN)	0.00010	0.00011	0.00013
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * C0 * !YN)	-0.00010	-0.00009	-0.00007
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00022	0.00022	0.00024
	(!A0 * A1 * C0 * !YN)	-0.00010	-0.00009	-0.00006
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * !YN)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !C0 * YN)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * C0 * !YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00031	0.00031	0.00031
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00031	0.00031	0.00031

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00031	-0.00031	-0.00030

OAOI211X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P7H7L	0.00073	0.00070	0.00072	0.00084	0.01714

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P7H7L	0.00000	0.79438	2.53243

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7L	A0->YN (FR)	0.05391	0.20366	0.63789
	A1->YN (FR)	0.05511	0.19701	0.59900
	B0->YN (FR)	0.03110	0.14348	0.49106
	C0->YN (FR)	0.04511	0.19622	0.63504

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7L	A0->YN (RF)	0.02134	0.08465	0.30958
	A1->YN (RF)	0.02167	0.08684	0.31229
	B0->YN (RF)	0.01848	0.08411	0.32053
	C0->YN (RF)	-0.00615	0.05248	0.23181

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	**A0**	0.00115	0.00122	0.00170
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00009	0.00009	0.00009
	A0	0.00003	0.00011	0.00058
	A1	0.00125	0.00133	0.00180
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	0.00005	0.00051
	B0	0.00097	0.00108	0.00175
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00003	0.00003	0.00004
	B0	-0.00004	0.00009	0.00082
	C0	0.00058	0.00078	0.00182
	C0	-0.00002	-0.00002	0.00000
	C0	0.00009	0.00009	0.00009
	C0	-0.00010	0.00010	0.00113

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	A0	-0.00007	0.00000	0.00045
	A0	0.00006	0.00006	0.00006
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00103	0.00111	0.00156
	A1	-0.00007	0.00000	0.00047
	A1	0.00009	0.00009	0.00009
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00116	0.00126	0.00172
	B0	-0.00007	0.00007	0.00081
	B0	0.00009	0.00009	0.00009
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00086	0.00101	0.00170
	C0	-0.00009	0.00009	0.00105
	C0	0.00001	0.00002	0.00003
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00087	0.00102	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00022	0.00022	0.00022
	(A1 * !B0 * C0 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00007
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00021	0.00022	0.00023
	(!A1 * !B0 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * C0 * !YN)	0.00012	0.00013	0.00013
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00014	0.00015	0.00017
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * B0 * C0 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00007
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * B0 * C0 * !YN)	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !YN)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00009	0.00010	0.00010
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * !C0 * YN)	0.00011	0.00012	0.00014
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00025	-0.00023	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * C0 * !YN)	-0.00011	-0.00010	-0.00008
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00023	0.00023	0.00025
	(!A0 * A1 * C0 * !YN)	-0.00011	-0.00010	-0.00007
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !C0 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00033	0.00033	0.00033

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00033	-0.00033	-0.00032

OAOI211X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1H7L	0.00080	0.00077	0.00079	0.00090	0.02035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1H7L	0.00000	0.87672	2.81072

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7L	A0->YN (FR)	0.04950	0.20049	0.64039
	A1->YN (FR)	0.05077	0.19400	0.60112
	B0->YN (FR)	0.02866	0.14170	0.49397
	C0->YN (FR)	0.04053	0.19283	0.63783

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7L	A0->YN (RF)	0.01980	0.08340	0.31141
	A1->YN (RF)	0.02011	0.08565	0.31422
	B0->YN (RF)	0.01712	0.08326	0.32325
	C0->YN (RF)	-0.00934	0.05176	0.23442

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7L	A0	0.00127	0.00136	0.00192
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00010	0.00010	0.00010
	A0	0.00001	0.00011	0.00066
	A1	0.00140	0.00149	0.00204
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	0.00005	0.00059
	B0	0.00108	0.00121	0.00200
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00004	0.00004	0.00004
	B0	-0.00005	0.00009	0.00095
	C0	0.00063	0.00086	0.00207
	C0	-0.00002	-0.00002	0.00000
	C0	0.00010	0.00010	0.00010
	C0	-0.00011	0.00013	0.00133

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7L	A0	-0.00009	0.00000	0.00052
	A0	0.00007	0.00008	0.00008
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00115	0.00124	0.00176
	A1	-0.00009	-0.00000	0.00054
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00129	0.00140	0.00194
	B0	-0.00009	0.00007	0.00093
	B0	0.00011	0.00011	0.00011
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00095	0.00114	0.00194
	C0	-0.00011	0.00011	0.00122
	C0	0.00001	0.00002	0.00006
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00094	0.00112	0.00200

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00023	0.00024	0.00024
	(A1 * !B0 * C0 * !YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00021	0.00022	0.00022
	(A1 * !B0 * !C0 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00022	0.00023	0.00025
	(!A1 * !B0 * C0 * !YN)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !YN)	0.00016	0.00016	0.00017
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00018	0.00019
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * B0 * C0 * !YN)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !YN)	-0.00011	-0.00011	-0.00009
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00028	0.00028	0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00028	0.00028	0.00028
	(!A0 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !B0 * C0 * !YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00029	-0.00028	-0.00028
	(!A0 * !B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * YN)	0.00013	0.00014	0.00016
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * C0 * !YN)	-0.00013	-0.00012	-0.00009
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00025	0.00025	0.00027
	(!A0 * A1 * C0 * !YN)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * C0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * C0 * !YN)	0.00014	0.00014	0.00014
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00006	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00034	0.00034	0.00035
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00034	0.00034	0.00034

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00034	-0.00034	-0.00033

OAOI211X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1P4H7L	0.00086	0.00080	0.00088	0.00097	0.02318

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1P4H7L	0.00000	0.96822	3.11899

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7L	A0->YN (FR)	0.04723	0.19894	0.64208
	A1->YN (FR)	0.04848	0.19260	0.60284
	B0->YN (FR)	0.02709	0.14048	0.49473
	C0->YN (FR)	0.03766	0.19079	0.63868

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7L	A0->YN (RF)	0.01774	0.08160	0.30948
	A1->YN (RF)	0.01897	0.08400	0.31250
	B0->YN (RF)	0.01595	0.08161	0.32203
	C0->YN (RF)	-0.01211	0.05047	0.23361

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	A0	0.00140	0.00151	0.00214
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00012	0.00012	0.00012
	A0	0.00002	0.00013	0.00076
	A1	0.00155	0.00166	0.00227
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00012	0.00012	0.00012
	A1	-0.00003	0.00007	0.00069
	B0	0.00119	0.00134	0.00224
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00004	0.00005	0.00006
	B0	-0.00008	0.00009	0.00108
	C0	0.00066	0.00093	0.00232
	C0	-0.00002	-0.00002	0.00000
	C0	0.00012	0.00012	0.00012
	C0	-0.00013	0.00014	0.00151

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	A0	-0.00010	-0.00000	0.00059
	A0	0.00009	0.00009	0.00009
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00125	0.00136	0.00195
	A1	-0.00010	-0.00001	0.00060
	A1	0.00013	0.00013	0.00013
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00142	0.00153	0.00215
	B0	-0.00010	0.00008	0.00105
	B0	0.00013	0.00013	0.00013
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00108	0.00126	0.00216
	C0	-0.00012	0.00012	0.00139
	C0	0.00001	0.00003	0.00016
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00102	0.00122	0.00223

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00025	0.00025	0.00026
	(A1 * !B0 * C0 * !YN)	-0.00017	-0.00016	-0.00015
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00024	0.00025	0.00027
	(!A1 * !B0 * C0 * !YN)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * !YN)	0.00016	0.00017	0.00017
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00019
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * YN)	0.00019	0.00020	0.00021
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * B0 * C0 * !YN)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00029	0.00029	0.00029
	(A0 * B0 * !C0 * !YN)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00029	0.00029	0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00029	0.00029	0.00029
	(!A0 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00009
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00029	0.00029	0.00030
	(!A0 * !B0 * C0 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00026	0.00027	0.00027
	(!A0 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00028	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * !YN)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00027	-0.00026	-0.00024
	(!A0 * !B0 * !C0 * YN)	0.00015	0.00016	0.00018
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00027	0.00028	0.00029
	(!A0 * A1 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !C0 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * C0 * !YN)	0.00015	0.00015	0.00016
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00036	0.00037	0.00037
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00036	0.00036	0.00037

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00037	-0.00037	-0.00036
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00037	-0.00036	-0.00035

OAOI211X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X2H7L	0.00100	0.00094	0.00101	0.00110	0.02724

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X2H7L	0.00000	1.12529	3.64093

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7L	A0->YN (FR)	0.04471	0.19696	0.64251
	A1->YN (FR)	0.04593	0.19063	0.60355
	B0->YN (FR)	0.02597	0.13962	0.49526
	C0->YN (FR)	0.03555	0.18937	0.63844

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7L	A0->YN (RF)	0.01283	0.07866	0.30395
	A1->YN (RF)	0.01767	0.08114	0.30654
	B0->YN (RF)	0.01510	0.07929	0.31701
	C0->YN (RF)	-0.01595	0.04889	0.22998

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7L	A0	0.00159	0.00172	0.00248
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00014	0.00014	0.00014
	A0	-0.00002	0.00011	0.00086
	A1	0.00177	0.00189	0.00264
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00014	0.00014	0.00014
	A1	-0.00007	0.00005	0.00080
	B0	0.00139	0.00156	0.00263
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00006	0.00006	0.00007
	B0	-0.00009	0.00010	0.00128
	C0	0.00077	0.00109	0.00272
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00014	0.00014	0.00014
	C0	-0.00016	0.00016	0.00178

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7L	A0	-0.00013	-0.00000	0.00071
	A0	0.00010	0.00011	0.00012
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00143	0.00159	0.00230
	A1	-0.00012	-0.00001	0.00072
	A1	0.00016	0.00016	0.00016
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00163	0.00178	0.00251
	B0	-0.00012	0.00009	0.00123
	B0	0.00016	0.00016	0.00016
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00126	0.00147	0.00253
	C0	-0.00013	0.00015	0.00165
	C0	0.00002	0.00003	0.00004
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00115	0.00141	0.00260

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * !YN)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00018	-0.00017
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A1 * B0 * C0 * !YN)	-0.00018	-0.00016	-0.00012
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00028	0.00029	0.00031
	(!A1 * !B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * C0 * !YN)	0.00019	0.00019	0.00020
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !C0 * YN)	0.00019	0.00020	0.00020
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00025	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * YN)	0.00022	0.00023	0.00025
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * B0 * C0 * !YN)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * !YN)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00033	0.00033	0.00033
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00032	0.00032	0.00033
	(!A0 * B0 * C0 * !YN)	-0.00015	-0.00013	-0.00011
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !B0 * C0 * !YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00032	0.00032	0.00032

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00016
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !YN)	0.00016	0.00016	0.00017
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00015	0.00015	0.00016
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00033	-0.00033	-0.00032
	(!A0 * !B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00030	-0.00029	-0.00027
	(!A0 * !B0 * !C0 * YN)	0.00018	0.00019	0.00022
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00030	-0.00028	-0.00025

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * C0 * !YN)	-0.00018	-0.00016	-0.00013
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00029	0.00030	0.00032
	(!A0 * A1 * C0 * !YN)	-0.00018	-0.00015	-0.00012
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00029	0.00030	0.00030
	(!A0 * !A1 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !C0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * C0 * !YN)	0.00019	0.00019	0.00019
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00027	-0.00025	-0.00023
	(!A0 * !A1 * !C0 * YN)	0.00029	0.00030	0.00030
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00042	0.00042	0.00042
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00041	0.00042	0.00042

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00042	-0.00042	-0.00041
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00042	-0.00041	-0.00040

OAOI211X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X3H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X3H7L	0.00163	0.00161	0.00176	0.00176	0.04234

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X3H7L	0.00000	1.82687	5.87977

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7L	A0->YN (FR)	0.04443	0.19655	0.64119
	A1->YN (FR)	0.04687	0.19198	0.60484
	B0->YN (FR)	0.02641	0.14007	0.49600
	C0->YN (FR)	0.03410	0.18798	0.63749

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7L	A0->YN (RF)	0.01109	0.07978	0.30734
	A1->YN (RF)	0.01800	0.08275	0.31120
	B0->YN (RF)	0.01509	0.08056	0.32051
	C0->YN (RF)	-0.01860	0.04845	0.23097

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7L	A0	0.00266	0.00286	0.00407
	A0	-0.00017	-0.00016	-0.00014
	A0	0.00022	0.00022	0.00022
	A0	-0.00004	0.00016	0.00136
	A1	0.00312	0.00331	0.00445
	A1	-0.00024	-0.00024	-0.00023
	A1	0.00022	0.00022	0.00022
	A1	-0.00002	0.00016	0.00130
	B0	0.00248	0.00277	0.00444
	B0	-0.00017	-0.00016	-0.00016
	B0	0.00008	0.00009	0.00010
	B0	-0.00017	0.00015	0.00204
	C0	0.00128	0.00179	0.00444
	C0	-0.00004	-0.00004	0.00000
	C0	0.00022	0.00022	0.00022
	C0	-0.00029	0.00023	0.00287

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7L	A0	-0.00019	0.00002	0.00114
	A0	0.00014	0.00016	0.00020
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00246	0.00269	0.00382
	A1	-0.00020	-0.00003	0.00112
	A1	0.00023	0.00024	0.00024
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00284	0.00303	0.00417
	B0	-0.00020	0.00014	0.00198
	B0	0.00024	0.00024	0.00024
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00218	0.00254	0.00422
	C0	-0.00018	0.00029	0.00272
	C0	0.00000	0.00007	0.00115
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00132	0.00183	0.00430

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00053	0.00054	0.00054
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00052	0.00053	0.00053
	(A1 * !B0 * C0 * !YN)	-0.00034	-0.00032	-0.00028
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00047	0.00047	0.00048
	(A1 * !B0 * !C0 * YN)	-0.00034	-0.00032	-0.00028
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00047	0.00048	0.00048
	(!A1 * B0 * C0 * !YN)	-0.00034	-0.00030	-0.00023
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00047	0.00049	0.00052
	(!A1 * !B0 * C0 * !YN)	-0.00040	-0.00040	-0.00039
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00042	0.00042	0.00042
	(!A1 * !B0 * !C0 * YN)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00045	0.00045	0.00045

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * !B0 * C0 * !YN)	0.00034	0.00034	0.00034
	(A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00047	-0.00047	-0.00046
	(A1 * !B0 * !C0 * YN)	0.00034	0.00034	0.00035
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00047	-0.00047	-0.00046
	(!A1 * B0 * C0 * !YN)	0.00035	0.00035	0.00035
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00047	-0.00047	-0.00046
	(!A1 * !B0 * C0 * !YN)	0.00039	0.00040	0.00040
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00042	-0.00040	-0.00038
	(!A1 * !B0 * !C0 * YN)	0.00041	0.00042	0.00046
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00042	-0.00039	-0.00035

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * B0 * C0 * !YN)	-0.00028	-0.00026	-0.00021
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00054	0.00054	0.00055
	(A0 * B0 * !C0 * !YN)	-0.00028	-0.00025	-0.00021
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00054	0.00054	0.00055
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00029	-0.00027	-0.00023
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00054	0.00054	0.00055
	(!A0 * B0 * C0 * !YN)	-0.00027	-0.00023	-0.00018
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00054	0.00055	0.00056
	(!A0 * !B0 * C0 * !YN)	-0.00035	-0.00034	-0.00034
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00048	0.00049	0.00049
	(!A0 * !B0 * !C0 * YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00051	0.00052	0.00052

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * B0 * C0 * !YN)	0.00028	0.00028	0.00028
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00054	-0.00054	-0.00053
	(A0 * B0 * !C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00028	0.00029	0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * B0 * C0 * !YN)	0.00027	0.00028	0.00028
	(!A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !B0 * C0 * !YN)	0.00034	0.00034	0.00035
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00049	-0.00047	-0.00044
	(!A0 * !B0 * !C0 * YN)	0.00036	0.00037	0.00040
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00048	-0.00045	-0.00041

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * C0 * !YN)	-0.00029	-0.00025	-0.00020
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00055	0.00056	0.00059
	(!A0 * A1 * C0 * !YN)	-0.00028	-0.00024	-0.00018
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00055	0.00056	0.00057
	(!A0 * !A1 * C0 * !YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !C0 * YN)	-0.00053	-0.00053	-0.00052
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * C0 * !YN)	0.00030	0.00030	0.00031
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * !YN)	-0.00055	-0.00054	-0.00054
	(!A0 * A1 * C0 * !YN)	0.00029	0.00029	0.00029
	(!A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00055	-0.00055	-0.00055
	(!A0 * !A1 * C0 * !YN)	0.00036	0.00036	0.00036
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00050	-0.00048	-0.00045
	(!A0 * !A1 * !C0 * YN)	0.00053	0.00053	0.00054
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN)	0.00067	0.00067	0.00068
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00067	0.00067	0.00068

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00003	0.00003	0.00004
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00067	-0.00067	-0.00067
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00068	-0.00067	-0.00067

OAOI211X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X4H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X4H7L	0.00190	0.00188	0.00204	0.00205	0.05419

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X4H7L	0.00000	2.25059	7.28186

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7L	A0->YN (FR)	0.03977	0.19265	0.64160
	A1->YN (FR)	0.04202	0.18783	0.60349
	B0->YN (FR)	0.02350	0.13717	0.49499
	C0->YN (FR)	0.03012	0.18490	0.63843

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7L	A0->YN (RF)	0.00422	0.07634	0.30297
	A1->YN (RF)	0.01511	0.07930	0.30588
	B0->YN (RF)	0.01230	0.07762	0.31688
	C0->YN (RF)	-0.02317	0.04662	0.22864

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7L	A0	0.00309	0.00335	0.00493
	A0	-0.00022	-0.00021	-0.00017
	A0	0.00028	0.00029	0.00029
	A0	-0.00014	0.00013	0.00171
	A1	0.00363	0.00387	0.00539
	A1	-0.00032	-0.00032	-0.00031
	A1	0.00028	0.00029	0.00029
	A1	-0.00014	0.00011	0.00161
	B0	0.00287	0.00324	0.00544
	B0	-0.00022	-0.00021	-0.00021
	B0	0.00011	0.00012	0.00012
	B0	-0.00027	0.00015	0.00261
	C0	0.00146	0.00211	0.00552
	C0	-0.00006	-0.00005	-0.00002
	C0	0.00028	0.00029	0.00029
	C0	-0.00037	0.00030	0.00369

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7L	A0	-0.00023	0.00002	0.00148
	A0	0.00017	0.00021	0.00022
	A0	-0.00029	-0.00029	-0.00028
	A0	0.00292	0.00319	0.00467
	A1	-0.00026	-0.00003	0.00146
	A1	0.00031	0.00032	0.00032
	A1	-0.00029	-0.00029	-0.00028
	A1	0.00336	0.00362	0.00511
	B0	-0.00026	0.00018	0.00253
	B0	0.00031	0.00032	0.00032
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00261	0.00304	0.00520
	C0	-0.00025	0.00035	0.00347
	C0	0.00004	0.00006	0.00016
	C0	-0.00012	-0.00012	-0.00011
	C0	0.00150	0.00215	0.00530

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00012	-0.00012	-0.00011
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00059	0.00060	0.00060
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00058	0.00059	0.00059
	(A1 * !B0 * C0 * !YN)	-0.00042	-0.00039	-0.00035
	(A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00053	0.00054	0.00054
	(A1 * !B0 * !C0 * YN)	-0.00042	-0.00039	-0.00035
	(A1 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00054	0.00054	0.00055
	(!A1 * B0 * C0 * !YN)	-0.00042	-0.00037	-0.00029
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00053	0.00055	0.00059
	(!A1 * !B0 * C0 * !YN)	-0.00049	-0.00049	-0.00048
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00048	0.00048	0.00048
	(!A1 * !B0 * !C0 * YN)	-0.00048	-0.00048	-0.00048
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00051	0.00052	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00011	0.00012	0.00012
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00059	-0.00059	-0.00058
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00059	-0.00058	-0.00058
	(A1 * !B0 * C0 * !YN)	0.00042	0.00042	0.00042
	(A1 * !B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00053	-0.00053	-0.00052
	(A1 * !B0 * !C0 * YN)	0.00042	0.00042	0.00043
	(A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00054	-0.00053	-0.00053
	(!A1 * B0 * C0 * !YN)	0.00043	0.00043	0.00043
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00053	-0.00053	-0.00052
	(!A1 * !B0 * C0 * !YN)	0.00048	0.00049	0.00049
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00048	-0.00046	-0.00043
	(!A1 * !B0 * !C0 * YN)	0.00050	0.00052	0.00055
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00047	-0.00044	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * B0 * C0 * !YN)	-0.00035	-0.00032	-0.00028
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00060	0.00061	0.00062
	(A0 * B0 * !C0 * !YN)	-0.00036	-0.00032	-0.00027
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00061	0.00061	0.00062
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00036	-0.00033	-0.00030
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00060	0.00061	0.00061
	(!A0 * B0 * C0 * !YN)	-0.00034	-0.00030	-0.00023
	(!A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00061	0.00061	0.00062
	(!A0 * !B0 * C0 * !YN)	-0.00043	-0.00043	-0.00042
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00004
	(!A0 * !B0 * C0 * !YN)	0.00053	0.00055	0.00055
	(!A0 * !B0 * !C0 * YN)	-0.00042	-0.00042	-0.00042
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00058	0.00059	0.00059

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * B0 * C0 * !YN)	0.00035	0.00035	0.00036
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * B0 * !C0 * !YN)	0.00037	0.00038	0.00038
	(A0 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00035	0.00036	0.00036
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00060	-0.00060	-0.00060
	(!A0 * B0 * C0 * !YN)	0.00035	0.00035	0.00035
	(!A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00060	-0.00060	-0.00060
	(!A0 * !B0 * C0 * !YN)	0.00043	0.00043	0.00043
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00004	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00055	-0.00053	-0.00050
	(!A0 * !B0 * !C0 * YN)	0.00044	0.00046	0.00050
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00054	-0.00051	-0.00046

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * C0 * !YN)	-0.00036	-0.00032	-0.00025
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	0.00062	0.00064	0.00067
	(!A0 * A1 * C0 * !YN)	-0.00035	-0.00030	-0.00023
	(!A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00062	0.00063	0.00064
	(!A0 * !A1 * C0 * !YN)	-0.00044	-0.00044	-0.00044
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00055	0.00056	0.00056
	(!A0 * !A1 * !C0 * YN)	-0.00063	-0.00063	-0.00062
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * C0 * !YN)	0.00038	0.00038	0.00039
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * !YN)	-0.00062	-0.00061	-0.00061
	(!A0 * A1 * C0 * !YN)	0.00036	0.00036	0.00036
	(!A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00062	-0.00061	-0.00061
	(!A0 * !A1 * C0 * !YN)	0.00044	0.00044	0.00044
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00056	-0.00054	-0.00050
	(!A0 * !A1 * !C0 * YN)	0.00063	0.00064	0.00064
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00004	-0.00005	-0.00004
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00076	0.00076	0.00077
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00076	0.00076	0.00077

Passive power(pJ) for C0 falling (conditional):

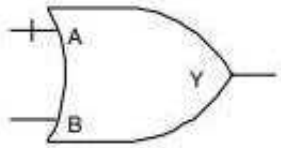
Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7L	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00077	-0.00076	-0.00076
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00077	-0.00076	-0.00075

OR2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P5H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P5H7L	0.00075	0.00081	0.04544

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P5H7L	0.00000	1.51322	2.40381

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7L	A->Y (RR)	0.02711	0.15012	0.45381
	B->Y (RR)	0.02626	0.14749	0.45009

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7L	A->Y (FF)	0.04440	0.15333	0.42837
	B->Y (FF)	0.04273	0.15396	0.43312

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7L	A	0.00034	0.00056	0.00133
	A	0.00003	0.00003	0.00003
	A	-0.00002	-0.00002	-0.00001
	A	0.00108	0.00130	0.00207
	B	0.00034	0.00059	0.00144
	B	-0.00000	0.00000	0.00000
	B	-0.00002	-0.00002	-0.00001
	B	0.00097	0.00122	0.00207

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7L	A	0.00112	0.00132	0.00210
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00002	0.00002
	A	0.00037	0.00057	0.00135
	B	0.00102	0.00127	0.00222
	B	-0.00000	0.00000	0.00000
	B	0.00001	0.00002	0.00002
	B	0.00038	0.00063	0.00159

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7L	(B * Y)	-0.00009	-0.00009	-0.00008
	(B * Y)	-0.00001	-0.00000	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7L	(B * Y)	0.00010	0.00010	0.00010
	(B * Y)	0.00000	0.00000	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B falling (conditional):

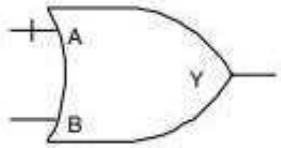
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00030	-0.00030	-0.00030

OR2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P7H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P7H7L	0.00076	0.00082	0.05162

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P7H7L	0.00000	1.57000	2.41559

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7L	A->Y (RR)	0.02664	0.15037	0.45522
	B->Y (RR)	0.02578	0.14774	0.45151

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7L	A->Y (FF)	0.04456	0.15365	0.42791
	B->Y (FF)	0.04292	0.15430	0.43263

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7L	A	0.00037	0.00060	0.00139
	A	0.00003	0.00003	0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00112	0.00135	0.00213
	B	0.00037	0.00062	0.00149
	B	-0.00000	-0.00000	0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00101	0.00126	0.00213

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7L	A	0.00115	0.00135	0.00215
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00001	0.00002
	A	0.00040	0.00060	0.00140
	B	0.00105	0.00130	0.00228
	B	0.00000	0.00000	0.00000
	B	0.00001	0.00001	0.00001
	B	0.00041	0.00066	0.00164

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7L	(B * Y)	-0.00009	-0.00009	-0.00008
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7L	(B * Y)	0.00010	0.00010	0.00010
	(B * Y)	0.00000	0.00000	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B falling (conditional):

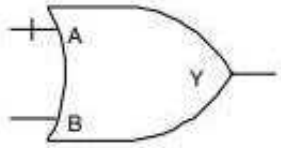
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00001	0.00002	0.00001
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00030	-0.00030	-0.00030

OR2X12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X12H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X12H7L	0.00195	0.00203	0.49646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X12H7L	0.00000	9.81122	10.52300

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7L	A->Y (RR)	0.02327	0.15468	0.47051
	B->Y (RR)	0.02208	0.15155	0.46376

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7L	A->Y (FF)	0.04782	0.16642	0.44968
	B->Y (FF)	0.04483	0.16585	0.45414

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7L	A	0.00294	0.00391	0.00851
	A	0.00000	0.00000	0.00000
	A	0.00004	0.00005	0.00005
	A	0.00485	0.00585	0.01044
	B	0.00297	0.00402	0.00899
	B	-0.00011	-0.00011	-0.00010
	B	0.00004	0.00005	0.00005
	B	0.00439	0.00547	0.01042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7L	A	0.00554	0.00636	0.01124
	A	0.00000	0.00000	0.00000
	A	-0.00005	-0.00005	-0.00004
	A	0.00321	0.00435	0.00927
	B	0.00494	0.00606	0.01219
	B	0.00011	0.00011	0.00011
	B	-0.00005	-0.00005	-0.00004
	B	0.00340	0.00458	0.01076

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7L	(B * Y)	-0.00035	-0.00032	-0.00026
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00061	0.00064	0.00068

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7L	(B * Y)	0.00040	0.00040	0.00040
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00059	-0.00059	-0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7L	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	-0.00004	-0.00004	-0.00004
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00078	0.00078	0.00078

Passive power(pJ) for B falling (conditional):

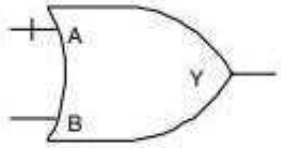
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7L	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00004	0.00004	0.00005
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00077	-0.00076	-0.00075

OR2X16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X16H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X16H7L	0.00285	0.00298	0.66227

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X16H7L	0.00000	13.40170	14.13760

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7L	A->Y (RR)	0.02185	0.15184	0.46536
	B->Y (RR)	0.02075	0.14878	0.45906

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7L	A->Y (FF)	0.04443	0.16148	0.44262
	B->Y (FF)	0.04178	0.16141	0.44754

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7L	A	0.00385	0.00529	0.01165
	A	0.00002	0.00003	0.00003
	A	0.00004	0.00005	0.00005
	A	0.00675	0.00818	0.01455
	B	0.00390	0.00541	0.01233
	B	-0.00014	-0.00014	-0.00011
	B	0.00004	0.00005	0.00006
	B	0.00606	0.00761	0.01450

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7L	A	0.00765	0.00878	0.01547
	A	-0.00003	-0.00002	0.00005
	A	-0.00005	-0.00004	-0.00003
	A	0.00415	0.00577	0.01251
	B	0.00680	0.00838	0.01679
	B	0.00012	0.00014	0.00014
	B	-0.00005	-0.00005	-0.00004
	B	0.00459	0.00615	0.01462

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7L	(B * Y)	-0.00053	-0.00048	-0.00041
	(B * Y)	-0.00003	-0.00003	-0.00002
	(B * Y)	0.00001	0.00001	0.00002
	(B * Y)	0.00090	0.00094	0.00102

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7L	(B * Y)	0.00059	0.00060	0.00060
	(B * Y)	0.00002	0.00003	0.00003
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00087	-0.00087	-0.00086

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7L	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	-0.00007	-0.00007	-0.00007
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00112	0.00113	0.00113

Passive power(pJ) for B falling (conditional):

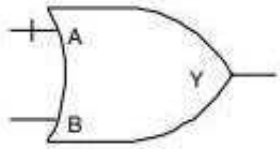
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7L	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00007	0.00007	0.00007
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00111	-0.00111	-0.00110

OR2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1H7L	0.00076	0.00081	0.06137

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1H7L	0.00000	1.66550	2.43648

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7L	A->Y (RR)	0.02553	0.14994	0.45572
	B->Y (RR)	0.02469	0.14728	0.45178

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7L	A->Y (FF)	0.04414	0.15481	0.43192
	B->Y (FF)	0.04246	0.15549	0.43724

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7L	A	0.00040	0.00063	0.00145
	A	0.00002	0.00002	0.00002
	A	-0.00001	-0.00001	-0.00001
	A	0.00114	0.00137	0.00219
	B	0.00040	0.00065	0.00156
	B	-0.00001	-0.00001	-0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00102	0.00128	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7L	A	0.00117	0.00137	0.00221
	A	-0.00002	-0.00002	-0.00002
	A	0.00001	0.00001	0.00001
	A	0.00043	0.00062	0.00146
	B	0.00107	0.00133	0.00235
	B	0.00000	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00045	0.00070	0.00173

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7L	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00000	0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7L	(B * Y)	0.00009	0.00010	0.00010
	(B * Y)	0.00000	0.00000	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B falling (conditional):

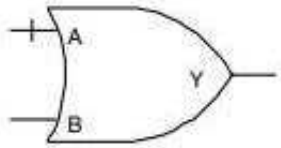
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7L	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	0.00001	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00030	-0.00030	-0.00029

OR2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1P4H7L	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1P4H7L	0.00079	0.00080	0.06994

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1P4H7L	0.00000	1.77221	2.45938

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7L	A->Y (RR)	0.02584	0.15127	0.45809
	B->Y (RR)	0.02484	0.14855	0.45396

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7L	A->Y (FF)	0.04567	0.15700	0.43396
	B->Y (FF)	0.04363	0.15750	0.43945

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7L	A	0.00045	0.00069	0.00155
	A	0.00002	0.00002	0.00002
	A	-0.00001	-0.00001	0.00003
	A	0.00117	0.00143	0.00229
	B	0.00046	0.00072	0.00166
	B	-0.00001	-0.00001	-0.00001
	B	-0.00001	-0.00001	-0.00001
	B	0.00107	0.00133	0.00228

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7L	A	0.00125	0.00145	0.00232
	A	-0.00002	-0.00002	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00049	0.00069	0.00156
	B	0.00114	0.00139	0.00247
	B	0.00001	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00052	0.00077	0.00185

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7L	(B * Y)	-0.00009	-0.00009	-0.00008
	(B * Y)	-0.00001	-0.00000	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7L	(B * Y)	0.00010	0.00010	0.00010
	(B * Y)	0.00000	0.00000	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B falling (conditional):

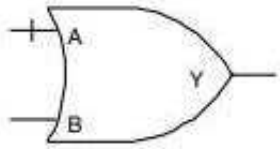
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00001	0.00001	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00030	-0.00029	-0.00029

OR2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X2H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X2H7L	0.00070	0.00083	0.09043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X2H7L	0.00000	2.38692	2.62600

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7L	A->Y (RR)	0.02708	0.15519	0.46597
	B->Y (RR)	0.02656	0.15306	0.46122

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7L	A->Y (FF)	0.04959	0.16509	0.44781
	B->Y (FF)	0.04885	0.16669	0.45435

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7L	A	0.00065	0.00090	0.00191
	A	0.00001	0.00001	0.00001
	A	-0.00000	-0.00000	0.00000
	A	0.00133	0.00159	0.00260
	B	0.00065	0.00092	0.00201
	B	-0.00002	-0.00001	-0.00001
	B	-0.00000	-0.00000	0.00000
	B	0.00125	0.00152	0.00261

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7L	A	0.00147	0.00168	0.00273
	A	-0.00001	-0.00001	-0.00001
	A	0.00000	0.00000	0.00000
	A	0.00077	0.00098	0.00203
	B	0.00138	0.00165	0.00295
	B	0.00001	0.00001	0.00002
	B	0.00000	0.00000	0.00000
	B	0.00076	0.00104	0.00235

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7L	(B * Y)	-0.00009	-0.00009	-0.00008
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7L	(B * Y)	0.00010	0.00010	0.00010
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for B falling (conditional):

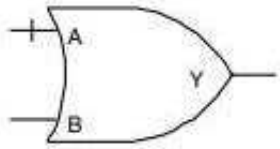
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00001	0.00002	0.00001
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00031	-0.00031	-0.00030

OR2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X3H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X3H7L	0.00087	0.00093	0.12865

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X3H7L	0.00000	2.88966	3.08871

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7L	A->Y (RR)	0.02466	0.15348	0.46639
	B->Y (RR)	0.02370	0.15088	0.46094

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7L	A->Y (FF)	0.04601	0.16093	0.44101
	B->Y (FF)	0.04403	0.16135	0.44585

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7L	A	0.00081	0.00113	0.00245
	A	0.00002	0.00002	0.00002
	A	-0.00000	0.00000	0.00000
	A	0.00165	0.00198	0.00329
	B	0.00081	0.00116	0.00259
	B	-0.00002	-0.00002	-0.00000
	B	0.00000	0.00000	0.00000
	B	0.00151	0.00186	0.00329

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7L	A	0.00183	0.00210	0.00346
	A	-0.00002	-0.00002	-0.00002
	A	-0.00000	-0.00000	0.00000
	A	0.00097	0.00124	0.00260
	B	0.00169	0.00204	0.00374
	B	0.00000	0.00002	0.00003
	B	-0.00000	0.00000	0.00000
	B	0.00099	0.00133	0.00305

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7L	(B * Y)	-0.00012	-0.00011	-0.00010
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7L	(B * Y)	0.00012	0.00013	0.00013
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

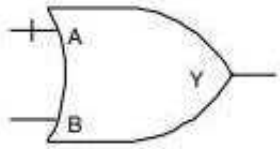
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00034	-0.00034	-0.00033

OR2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X4H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X4H7L	0.00083	0.00097	0.17183

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X4H7L	0.00000	3.92071	4.13912

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7L	A->Y (RR)	0.02459	0.15412	0.46659
	B->Y (RR)	0.02418	0.15222	0.46207

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7L	A->Y (FF)	0.04823	0.16560	0.44861
	B->Y (FF)	0.04758	0.16715	0.45455

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7L	A	0.00116	0.00157	0.00326
	A	0.00001	0.00001	0.00001
	A	0.00001	0.00001	0.00001
	A	0.00201	0.00242	0.00411
	B	0.00117	0.00159	0.00341
	B	-0.00004	-0.00003	-0.00003
	B	0.00001	0.00001	0.00001
	B	0.00187	0.00230	0.00411

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7L	A	0.00226	0.00259	0.00438
	A	-0.00001	-0.00001	-0.00001
	A	-0.00001	-0.00001	-0.00000
	A	0.00128	0.00171	0.00352
	B	0.00212	0.00256	0.00481
	B	0.00003	0.00003	0.00004
	B	-0.00001	-0.00001	-0.00000
	B	0.00142	0.00184	0.00411

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7L	(B * Y)	-0.00013	-0.00012	-0.00010
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00030	0.00031	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7L	(B * Y)	0.00014	0.00014	0.00014
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for B falling (conditional):

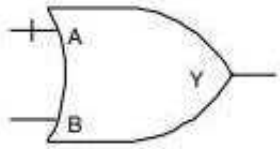
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00036	-0.00036	-0.00035

OR2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X6H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X6H7L	0.00092	0.00107	0.24862

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X6H7L	0.00000	4.90561	5.26151

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7L	A->Y (RR)	0.02377	0.15485	0.47011
	B->Y (RR)	0.02323	0.15280	0.46619

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7L	A->Y (FF)	0.04764	0.16619	0.45013
	B->Y (FF)	0.04671	0.16752	0.45606

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7L	A	0.00151	0.00201	0.00425
	A	-0.00000	-0.00000	0.00000
	A	0.00002	0.00002	0.00003
	A	0.00242	0.00292	0.00516
	B	0.00152	0.00203	0.00444
	B	-0.00006	-0.00006	-0.00004
	B	0.00002	0.00002	0.00003
	B	0.00224	0.00276	0.00516

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7L	A	0.00270	0.00311	0.00550
	A	-0.00000	0.00000	0.00005
	A	-0.00003	-0.00002	-0.00002
	A	0.00176	0.00218	0.00458
	B	0.00253	0.00308	0.00607
	B	0.00005	0.00006	0.00006
	B	-0.00003	-0.00002	-0.00002
	B	0.00175	0.00233	0.00535

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7L	(B * Y)	-0.00015	-0.00014	-0.00012
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00032	0.00033	0.00034

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7L	(B * Y)	0.00017	0.00017	0.00017
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00039	0.00039	0.00039

Passive power(pJ) for B falling (conditional):

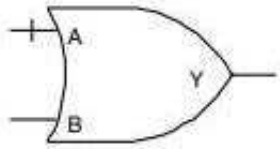
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7L	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00039	-0.00038	-0.00038

OR2X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X8H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X8H7L	0.00173	0.00183	0.33132

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X8H7L	0.00000	6.93264	7.13836

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7L	A->Y (RR)	0.02184	0.15064	0.46203
	B->Y (RR)	0.02066	0.14731	0.45614

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7L	A->Y (FF)	0.04368	0.15941	0.43899
	B->Y (FF)	0.04057	0.15851	0.44296

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7L	A	0.00188	0.00266	0.00593
	A	0.00002	0.00002	0.00002
	A	0.00001	0.00001	0.00001
	A	0.00364	0.00442	0.00769
	B	0.00192	0.00274	0.00634
	B	-0.00007	-0.00006	-0.00005
	B	0.00001	0.00001	0.00002
	B	0.00327	0.00411	0.00769

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7L	A	0.00414	0.00476	0.00816
	A	-0.00002	-0.00002	-0.00002
	A	-0.00001	-0.00001	-0.00001
	A	0.00233	0.00294	0.00636
	B	0.00362	0.00446	0.00877
	B	0.00006	0.00007	0.00010
	B	-0.00001	-0.00001	-0.00001
	B	0.00213	0.00309	0.00742

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7L	(B * Y)	-0.00030	-0.00027	-0.00022
	(B * Y)	-0.00002	-0.00001	-0.00001
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00056	0.00058	0.00062

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7L	(B * Y)	0.00033	0.00033	0.00034
	(B * Y)	0.00001	0.00001	0.00002
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00055	-0.00054	-0.00054

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00071	0.00071	0.00072

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7L	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00071	-0.00070	-0.00069

OR3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P5H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P5H7L	0.00072	0.00070	0.00078	0.04568

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P5H7L	0.00000	1.45884	3.49449

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7L	A->Y (RR)	0.02880	0.15412	0.46118
	B->Y (RR)	0.02788	0.15131	0.45756
	C->Y (RR)	0.02710	0.14891	0.45394

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7L	A->Y (FF)	0.06498	0.17623	0.45774
	B->Y (FF)	0.06244	0.18004	0.47323
	C->Y (FF)	0.05915	0.17816	0.47380

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7L	A	0.00032	0.00051	0.00121
	A	0.00006	0.00006	0.00006
	A	-0.00003	-0.00003	-0.00003
	A	0.00125	0.00144	0.00214
	B	0.00034	0.00053	0.00120
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00111	0.00130	0.00197
	C	0.00034	0.00055	0.00130
	C	-0.00000	0.00000	0.00000
	C	-0.00003	-0.00003	-0.00003
	C	0.00105	0.00126	0.00200

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7L	A	0.00133	0.00148	0.00216
	A	-0.00006	-0.00006	-0.00005
	A	0.00003	0.00003	0.00003
	A	0.00036	0.00053	0.00121
	B	0.00120	0.00136	0.00204
	B	-0.00003	-0.00003	-0.00003
	B	0.00003	0.00003	0.00003
	B	0.00042	0.00058	0.00126
	C	0.00110	0.00131	0.00215
	C	-0.00000	0.00000	0.00001
	C	0.00003	0.00003	0.00003
	C	0.00040	0.00060	0.00144

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(B * C * Y)	-0.00009	-0.00009	-0.00008
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00026	0.00026	0.00026
	(B * !C * Y)	-0.00009	-0.00009	-0.00007
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	0.00010	0.00010	0.00010
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00003	-0.00003	-0.00003
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00021	0.00022	0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00021	0.00021	0.00021
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00003	0.00003	0.00003
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00029	0.00029	0.00029
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00029	-0.00029	-0.00029
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00029	-0.00029	-0.00029

OR3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P7H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P7H7L	0.00075	0.00069	0.00082	0.05184

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P7H7L	0.00000	1.52312	3.50628

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7L	A->Y (RR)	0.02932	0.15591	0.46420
	B->Y (RR)	0.02810	0.15280	0.45997
	C->Y (RR)	0.02768	0.15080	0.45706

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7L	A->Y (FF)	0.06801	0.17997	0.46127
	B->Y (FF)	0.06452	0.18330	0.47653
	C->Y (FF)	0.06265	0.18236	0.47817

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7L	A	0.00038	0.00057	0.00128
	A	0.00005	0.00005	0.00005
	A	-0.00003	-0.00003	-0.00003
	A	0.00133	0.00153	0.00224
	B	0.00039	0.00059	0.00128
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00118	0.00137	0.00207
	C	0.00039	0.00060	0.00136
	C	-0.00000	-0.00000	-0.00000
	C	-0.00003	-0.00003	-0.00003
	C	0.00113	0.00134	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7L	A	0.00142	0.00157	0.00226
	A	-0.00005	-0.00005	-0.00005
	A	0.00003	0.00003	0.00003
	A	0.00042	0.00060	0.00129
	B	0.00128	0.00144	0.00214
	B	-0.00003	-0.00003	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00049	0.00064	0.00135
	C	0.00120	0.00141	0.00227
	C	0.00000	0.00000	0.00000
	C	0.00003	0.00003	0.00003
	C	0.00046	0.00066	0.00153

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00026	0.00026	0.00027
	(B * !C * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00027
	(!B * C * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	0.00009	0.00009	0.00009
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00003	-0.00003	-0.00003
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00020	0.00021	0.00021
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00020	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00003	0.00003	0.00003
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00030	0.00031	0.00031
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for C falling (conditional):

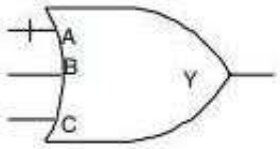
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00031	-0.00030	-0.00030
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00031	-0.00030	-0.00030

OR3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1H7L	0.00073	0.00071	0.00074	0.06139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1H7L	0.00000	1.63106	3.52718

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7L	A->Y (RR)	0.02767	0.15394	0.46145
	B->Y (RR)	0.02677	0.15123	0.45762
	C->Y (RR)	0.02583	0.14867	0.45401

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7L	A->Y (FF)	0.06584	0.17889	0.46157
	B->Y (FF)	0.06353	0.18306	0.47774
	C->Y (FF)	0.05947	0.18067	0.47835

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7L	A	0.00041	0.00061	0.00136
	A	0.00005	0.00005	0.00005
	A	-0.00003	-0.00003	-0.00002
	A	0.00132	0.00152	0.00227
	B	0.00042	0.00062	0.00135
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00117	0.00137	0.00210
	C	0.00043	0.00064	0.00145
	C	-0.00001	-0.00001	-0.00000
	C	-0.00003	-0.00003	-0.00002
	C	0.00109	0.00131	0.00212

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7L	A	0.00140	0.00155	0.00229
	A	-0.00005	-0.00005	-0.00004
	A	0.00002	0.00003	0.00003
	A	0.00043	0.00062	0.00136
	B	0.00127	0.00144	0.00219
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00003	0.00003
	B	0.00048	0.00068	0.00143
	C	0.00117	0.00138	0.00231
	C	0.00000	0.00001	0.00002
	C	0.00002	0.00003	0.00003
	C	0.00050	0.00071	0.00164

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(B * C * Y)	-0.00009	-0.00009	-0.00008
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00027	0.00027	0.00027
	(B * !C * Y)	-0.00009	-0.00009	-0.00008
	(B * !C * Y)	-0.00001	-0.00000	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00027	0.00027	0.00028
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * Y)	0.00010	0.00010	0.00010
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * Y)	0.00009	0.00010	0.00010
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00003	-0.00003	-0.00003
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00022	0.00022	0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00022	0.00022	0.00022
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00003	0.00003	0.00003
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00028	0.00028
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00028
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00028	-0.00028	-0.00027

OR3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1P4H7L	0.00075	0.00070	0.00074	0.07037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1P4H7L	0.00000	1.75173	3.55009

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7L	A->Y (RR)	0.02701	0.15452	0.46393
	B->Y (RR)	0.02600	0.15164	0.45991
	C->Y (RR)	0.02510	0.14912	0.45643

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7L	A->Y (FF)	0.06629	0.18006	0.46322
	B->Y (FF)	0.06338	0.18388	0.47917
	C->Y (FF)	0.05944	0.18154	0.48001

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7L	A	0.00041	0.00062	0.00141
	A	0.00005	0.00005	0.00005
	A	-0.00002	-0.00002	-0.00002
	A	0.00133	0.00154	0.00233
	B	0.00043	0.00063	0.00140
	B	0.00002	0.00002	0.00002
	B	-0.00002	-0.00002	0.00001
	B	0.00115	0.00138	0.00216
	C	0.00043	0.00065	0.00150
	C	-0.00001	-0.00001	-0.00000
	C	-0.00003	-0.00002	-0.00002
	C	0.00110	0.00133	0.00218

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7L	A	0.00143	0.00159	0.00237
	A	-0.00005	-0.00005	-0.00005
	A	0.00002	0.00002	0.00003
	A	0.00047	0.00065	0.00143
	B	0.00130	0.00147	0.00227
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00002	0.00003
	B	0.00050	0.00071	0.00151
	C	0.00120	0.00142	0.00241
	C	0.00000	0.00001	0.00001
	C	0.00002	0.00002	0.00003
	C	0.00052	0.00074	0.00173

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00027	0.00028	0.00028
	(B * !C * Y)	-0.00009	-0.00008	-0.00008
	(B * !C * Y)	-0.00001	-0.00000	0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00027	0.00028	0.00028
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * Y)	0.00009	0.00010	0.00010
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * Y)	0.00009	0.00009	0.00010
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00003	-0.00003	-0.00003
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00022	0.00022	0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00021	0.00021	0.00022
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00003	0.00003	0.00003
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00028	0.00028
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for C falling (conditional):

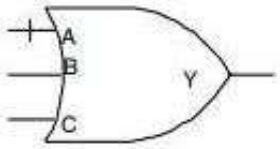
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00027
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00028	-0.00028	-0.00027

OR3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X2H7L	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X2H7L	0.00074	0.00068	0.00076	0.09077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X2H7L	0.00000	2.44114	3.71682

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7L	A->Y (RR)	0.03029	0.16101	0.47478
	B->Y (RR)	0.02911	0.15823	0.46863
	C->Y (RR)	0.02845	0.15612	0.46546

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7L	A->Y (FF)	0.07733	0.19561	0.48395
	B->Y (FF)	0.07405	0.19956	0.50158
	C->Y (FF)	0.07123	0.19813	0.50350

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7L	A	0.00070	0.00093	0.00187
	A	0.00004	0.00004	0.00004
	A	-0.00002	-0.00002	-0.00001
	A	0.00159	0.00182	0.00276
	B	0.00071	0.00095	0.00188
	B	0.00001	0.00001	0.00002
	B	-0.00002	-0.00002	-0.00002
	B	0.00143	0.00167	0.00260
	C	0.00072	0.00096	0.00197
	C	-0.00001	-0.00001	-0.00001
	C	-0.00002	-0.00002	-0.00001
	C	0.00137	0.00162	0.00262

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7L	A	0.00177	0.00196	0.00293
	A	-0.00004	-0.00004	-0.00004
	A	0.00001	0.00002	0.00002
	A	0.00079	0.00104	0.00202
	B	0.00163	0.00183	0.00287
	B	-0.00002	-0.00001	-0.00001
	B	0.00002	0.00002	0.00002
	B	0.00089	0.00109	0.00214
	C	0.00153	0.00179	0.00307
	C	0.00001	0.00001	0.00002
	C	0.00001	0.00002	0.00002
	C	0.00086	0.00112	0.00241

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(B * C * Y)	-0.00010	-0.00009	-0.00009
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00025	0.00026	0.00026
	(B * !C * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00009	-0.00009	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(B * C * Y)	0.00010	0.00010	0.00010
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * Y)	0.00010	0.00011	0.00011
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * Y)	0.00010	0.00010	0.00010
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00003	-0.00003	-0.00003
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00020	0.00020	0.00021
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00003	0.00003	0.00003
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00029	0.00029
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

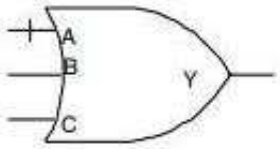
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00029	-0.00028	-0.00028
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00029	-0.00028	-0.00028

OR3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X3H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X3H7L	0.00085	0.00082	0.00086	0.12857

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X3H7L	0.00000	2.96873	4.37169

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7L	A->Y (RR)	0.02641	0.15668	0.47023
	B->Y (RR)	0.02547	0.15400	0.46430
	C->Y (RR)	0.02453	0.15152	0.46118

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7L	A->Y (FF)	0.06874	0.18567	0.46980
	B->Y (FF)	0.06615	0.18984	0.48673
	C->Y (FF)	0.06194	0.18715	0.48692

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7L	A	0.00083	0.00113	0.00236
	A	0.00005	0.00006	0.00006
	A	-0.00002	-0.00002	-0.00002
	A	0.00191	0.00221	0.00344
	B	0.00085	0.00115	0.00236
	B	0.00002	0.00002	0.00002
	B	-0.00002	-0.00002	-0.00002
	B	0.00173	0.00203	0.00324
	C	0.00086	0.00117	0.00250
	C	-0.00003	-0.00002	-0.00002
	C	-0.00002	-0.00002	-0.00002
	C	0.00161	0.00194	0.00326

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7L	A	0.00211	0.00234	0.00361
	A	-0.00006	-0.00006	-0.00005
	A	0.00002	0.00002	0.00002
	A	0.00087	0.00122	0.00250
	B	0.00194	0.00219	0.00355
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00002	0.00002
	B	0.00098	0.00129	0.00266
	C	0.00179	0.00212	0.00379
	C	0.00002	0.00002	0.00004
	C	0.00002	0.00002	0.00002
	C	0.00103	0.00134	0.00303

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(B * C * Y)	-0.00011	-0.00011	-0.00009
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00030	0.00030	0.00030
	(B * !C * Y)	-0.00011	-0.00011	-0.00009
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00030	0.00030	0.00030
	(!B * C * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(B * C * Y)	0.00011	0.00012	0.00012
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00030	-0.00030	-0.00029
	(B * !C * Y)	0.00012	0.00012	0.00012
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00030	-0.00030	-0.00029
	(!B * C * Y)	0.00012	0.00012	0.00012
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00024	0.00024	0.00025
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00024	0.00024	0.00024
	(!A * C * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00024	0.00025	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00024	-0.00024	-0.00023
	(!A * C * Y)	0.00013	0.00013	0.00013
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00032	0.00032	0.00032
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for C falling (conditional):

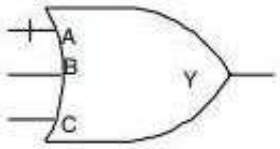
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00032	-0.00032	-0.00031
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00032	-0.00032	-0.00031

OR3X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X4H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X4H7L	0.00090	0.00089	0.00092	0.17207

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X4H7L	0.00000	4.09844	5.06057

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7L	A->Y (RR)	0.02768	0.15935	0.47382
	B->Y (RR)	0.02683	0.15693	0.46777
	C->Y (RR)	0.02588	0.15457	0.46445

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7L	A->Y (FF)	0.07636	0.19616	0.48365
	B->Y (FF)	0.07402	0.20089	0.50231
	C->Y (FF)	0.06965	0.19814	0.50279

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7L	A	0.00129	0.00165	0.00322
	A	0.00005	0.00006	0.00006
	A	-0.00002	-0.00002	-0.00001
	A	0.00243	0.00280	0.00437
	B	0.00130	0.00167	0.00322
	B	0.00001	0.00001	0.00001
	B	-0.00002	-0.00002	-0.00001
	B	0.00224	0.00261	0.00417
	C	0.00132	0.00169	0.00337
	C	-0.00003	-0.00003	-0.00003
	C	-0.00002	-0.00002	-0.00001
	C	0.00211	0.00250	0.00418

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7L	A	0.00270	0.00300	0.00469
	A	-0.00006	-0.00006	-0.00005
	A	0.00001	0.00002	0.00002
	A	0.00149	0.00181	0.00352
	B	0.00251	0.00284	0.00468
	B	-0.00001	-0.00001	-0.00001
	B	0.00001	0.00002	0.00002
	B	0.00150	0.00188	0.00372
	C	0.00234	0.00277	0.00502
	C	0.00003	0.00003	0.00004
	C	0.00001	0.00002	0.00002
	C	0.00151	0.00194	0.00422

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(B * C * Y)	-0.00013	-0.00012	-0.00011
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00031	0.00032	0.00032
	(B * !C * Y)	-0.00013	-0.00012	-0.00011
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	0.00032	0.00032	0.00033
	(!B * C * Y)	-0.00012	-0.00011	-0.00009
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(B * C * Y)	0.00013	0.00013	0.00013
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00031	-0.00031	-0.00031
	(B * !C * Y)	0.00014	0.00014	0.00014
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00005	-0.00005	-0.00005
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00027	0.00027	0.00027
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00026	0.00026	0.00027
	(!A * C * Y)	-0.00013	-0.00012	-0.00010
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00026	0.00027	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00005	0.00005	0.00005
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00026	-0.00026	-0.00026
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00034	0.00034	0.00034
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

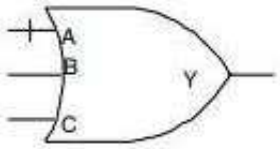
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00034	-0.00034	-0.00033
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00034	-0.00034	-0.00033

OR3X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X6H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X6H7L	0.00106	0.00099	0.00110	0.24790

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X6H7L	0.00000	5.16016	5.90037

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7L	A->Y (RR)	0.02613	0.15880	0.47493
	B->Y (RR)	0.02508	0.15616	0.46882
	C->Y (RR)	0.02434	0.15399	0.46509

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7L	A->Y (FF)	0.07499	0.19571	0.48294
	B->Y (FF)	0.07183	0.19982	0.50143
	C->Y (FF)	0.06826	0.19760	0.50228

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7L	A	0.00151	0.00194	0.00408
	A	0.00005	0.00005	0.00005
	A	-0.00001	-0.00001	-0.00000
	A	0.00282	0.00327	0.00539
	B	0.00153	0.00197	0.00410
	B	-0.00000	-0.00000	0.00000
	B	-0.00001	-0.00001	0.00000
	B	0.00259	0.00304	0.00517
	C	0.00153	0.00200	0.00428
	C	-0.00006	-0.00006	-0.00005
	C	-0.00001	-0.00001	0.00000
	C	0.00244	0.00292	0.00519

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7L	A	0.00319	0.00360	0.00591
	A	-0.00005	-0.00005	-0.00001
	A	0.00000	0.00001	0.00001
	A	0.00169	0.00223	0.00456
	B	0.00295	0.00339	0.00592
	B	-0.00000	0.00000	0.00003
	B	0.00000	0.00001	0.00002
	B	0.00178	0.00230	0.00484
	C	0.00276	0.00332	0.00639
	C	0.00005	0.00006	0.00006
	C	0.00000	0.00001	0.00001
	C	0.00180	0.00238	0.00548

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(B * C * Y)	-0.00016	-0.00015	-0.00013
	(B * C * Y)	-0.00002	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00034	0.00034	0.00034
	(B * !C * Y)	-0.00016	-0.00015	-0.00013
	(B * !C * Y)	-0.00001	-0.00001	0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00034	0.00034	0.00034
	(!B * C * Y)	-0.00015	-0.00014	-0.00011
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(B * C * Y)	0.00016	0.00016	0.00016
	(B * C * Y)	0.00001	0.00001	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00033	-0.00033	-0.00033
	(B * !C * Y)	0.00017	0.00018	0.00018
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00034	-0.00033	-0.00033
	(!B * C * Y)	0.00016	0.00016	0.00016
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00006
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00028	0.00029	0.00029
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00004	-0.00004	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00028	0.00028	0.00028
	(!A * C * Y)	-0.00016	-0.00015	-0.00012
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00028	0.00029	0.00030

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00006	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00028	-0.00028	-0.00027
	(A * !C * Y)	0.00000	0.00000	0.00001
	(A * !C * Y)	0.00003	0.00004	0.00004
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00028	-0.00028	-0.00027
	(!A * C * Y)	0.00018	0.00018	0.00018
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00039	0.00040	0.00040
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00001
	(A * !B * Y)	0.00040	0.00040	0.00040

Passive power(pJ) for C falling (conditional):

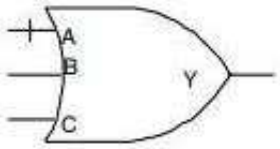
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00003	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00039	-0.00039	-0.00039
	(A * !B * Y)	0.00000	0.00000	0.00001
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00040	-0.00039	-0.00039

OR3X8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X8H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X8H7L	0.00181	0.00172	0.00185	0.32961

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X8H7L	0.00000	7.17256	9.90557

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7L	A->Y (RR)	0.02400	0.15465	0.46723
	B->Y (RR)	0.02314	0.15171	0.46143
	C->Y (RR)	0.02187	0.14843	0.45699

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7L	A->Y (FF)	0.06960	0.18826	0.47129
	B->Y (FF)	0.06664	0.19177	0.48855
	C->Y (FF)	0.05976	0.18658	0.48717

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7L	A	0.00189	0.00257	0.00564
	A	0.00011	0.00011	0.00011
	A	-0.00004	-0.00004	-0.00004
	A	0.00435	0.00504	0.00810
	B	0.00189	0.00258	0.00564
	B	0.00002	0.00002	0.00005
	B	-0.00004	-0.00004	0.00006
	B	0.00382	0.00459	0.00764
	C	0.00194	0.00269	0.00602
	C	-0.00007	-0.00006	0.00000
	C	-0.00004	-0.00004	-0.00003
	C	0.00356	0.00433	0.00765

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7L	A	0.00502	0.00557	0.00872
	A	-0.00011	-0.00011	-0.00011
	A	0.00004	0.00004	0.00004
	A	0.00214	0.00300	0.00617
	B	0.00456	0.00515	0.00859
	B	-0.00003	-0.00002	-0.00002
	B	0.00003	0.00004	0.00005
	B	0.00226	0.00309	0.00656
	C	0.00400	0.00482	0.00907
	C	0.00000	0.00007	0.00014
	C	0.00003	0.00004	0.00004
	C	0.00236	0.00316	0.00744

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(B * C * Y)	-0.00030	-0.00027	-0.00024
	(B * C * Y)	-0.00003	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00058	0.00059	0.00059
	(B * !C * Y)	-0.00030	-0.00027	-0.00022
	(B * !C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	0.00058	0.00059	0.00060
	(!B * C * Y)	-0.00029	-0.00025	-0.00020
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00059	0.00060	0.00061

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(B * C * Y)	0.00031	0.00031	0.00031
	(B * C * Y)	0.00002	0.00002	0.00003
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	-0.00058	-0.00057	-0.00057
	(B * !C * Y)	0.00033	0.00033	0.00033
	(B * !C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	-0.00058	-0.00057	-0.00057
	(!B * C * Y)	0.00031	0.00031	0.00031
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	-0.00058	-0.00058	-0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00009	-0.00009	-0.00009
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00054	0.00055	0.00055
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	0.00053	0.00054	0.00054
	(!A * C * Y)	-0.00036	-0.00032	-0.00027
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00049	0.00051	0.00055

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00009	0.00009	0.00009
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00053	-0.00053	-0.00052
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00006	0.00006	0.00007
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	-0.00053	-0.00053	-0.00052
	(!A * C * Y)	0.00038	0.00039	0.00039
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	-0.00048	-0.00047	-0.00047

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00071	0.00072	0.00072
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00001	0.00001
	(A * !B * Y)	0.00070	0.00071	0.00071

Passive power(pJ) for C falling (conditional):

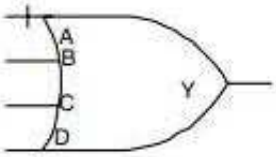
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7L	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00004	0.00004	0.00004
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00071	-0.00071	-0.00070
	(A * !B * Y)	-0.00000	0.00000	0.00001
	(A * !B * Y)	0.00003	0.00004	0.00004
	(A * !B * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * Y)	-0.00070	-0.00070	-0.00070

OR4X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P5H7L	0.00079	0.00071	0.00072	0.00074	0.04538

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P5H7L	0.00000	1.35560	4.58492

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7L	A->Y (RR)	0.03338	0.16147	0.46977
	B->Y (RR)	0.03239	0.15890	0.46644
	C->Y (RR)	0.03152	0.15639	0.46244
	D->Y (RR)	0.03051	0.15399	0.45929

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7L	A->Y (FF)	0.09917	0.21323	0.49630
	B->Y (FF)	0.09474	0.21530	0.51241
	C->Y (FF)	0.09043	0.21686	0.52558
	D->Y (FF)	0.08362	0.21168	0.52328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7L	A	0.00037	0.00055	0.00117
	A	0.00008	0.00008	0.00008
	A	-0.00005	-0.00005	-0.00004
	A	0.00154	0.00172	0.00234
	B	0.00039	0.00056	0.00117
	B	0.00006	0.00006	0.00006
	B	-0.00005	-0.00005	-0.00005
	B	0.00141	0.00158	0.00219
	C	0.00040	0.00057	0.00116
	C	0.00003	0.00003	0.00003
	C	-0.00005	-0.00005	-0.00005
	C	0.00132	0.00149	0.00208
	D	0.00041	0.00060	0.00125
	D	-0.00000	0.00000	0.00000
	D	-0.00005	-0.00005	-0.00005
	D	0.00125	0.00144	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7L	A	0.00170	0.00183	0.00241
	A	-0.00008	-0.00008	-0.00008
	A	0.00005	0.00005	0.00005
	A	0.00048	0.00063	0.00121
	B	0.00157	0.00170	0.00229
	B	-0.00006	-0.00006	-0.00005
	B	0.00005	0.00005	0.00005
	B	0.00052	0.00066	0.00125
	C	0.00146	0.00159	0.00221
	C	-0.00003	-0.00003	-0.00003
	C	0.00005	0.00005	0.00005
	C	0.00052	0.00066	0.00128
	D	0.00134	0.00153	0.00230
	D	-0.00000	0.00000	0.00000
	D	0.00005	0.00005	0.00005
	D	0.00050	0.00068	0.00146

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00027	0.00027	0.00027
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00027	0.00027	0.00027
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00027	0.00027	0.00027
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00027	0.00027	0.00027
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00027
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * !D * Y)	0.00009	0.00009	0.00009
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00022	0.00022	0.00022
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00022	0.00022	0.00022
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00022	0.00022	0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00022	0.00022	0.00022
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00022	0.00022	0.00022
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00022	0.00022	0.00023
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00003	0.00003	0.00003
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00021
	(!A * C * !D * Y)	0.00009	0.00010	0.00010
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00023	0.00023	0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00023	0.00023	0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00023	0.00024	0.00024
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00023	0.00023	0.00023
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00023	-0.00023	-0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00002	0.00002	0.00002
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00003	0.00003	0.00003
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00002	0.00002	0.00002
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00023	-0.00023	-0.00022
	(!A * !B * D * Y)	0.00010	0.00010	0.00010
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00029	0.00030	0.00030
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00029	0.00029	0.00030
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for D falling (conditional):

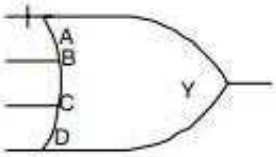
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00029	-0.00029	-0.00029
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00029	-0.00029	-0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00029	-0.00029	-0.00028

OR4X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P7H7L	0.00081	0.00074	0.00075	0.00074	0.05157

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P7H7L	0.00000	1.42363	4.59671

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7L	A->Y (RR)	0.03315	0.16235	0.47245
	B->Y (RR)	0.03214	0.15985	0.46853
	C->Y (RR)	0.03133	0.15743	0.46498
	D->Y (RR)	0.03024	0.15492	0.46181

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7L	A->Y (FF)	0.10192	0.21688	0.49973
	B->Y (FF)	0.09767	0.21919	0.51648
	C->Y (FF)	0.09345	0.22093	0.53020
	D->Y (FF)	0.08614	0.21537	0.52791

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7L	A	0.00040	0.00057	0.00122
	A	0.00008	0.00008	0.00008
	A	-0.00005	-0.00005	-0.00005
	A	0.00160	0.00178	0.00242
	B	0.00042	0.00059	0.00121
	B	0.00005	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00004
	B	0.00146	0.00164	0.00226
	C	0.00042	0.00059	0.00120
	C	0.00003	0.00003	0.00003
	C	-0.00005	-0.00005	-0.00004
	C	0.00137	0.00154	0.00215
	D	0.00044	0.00062	0.00130
	D	-0.00000	-0.00000	0.00000
	D	-0.00005	-0.00005	-0.00004
	D	0.00130	0.00149	0.00217

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7L	A	0.00177	0.00190	0.00251
	A	-0.00008	-0.00008	-0.00008
	A	0.00005	0.00005	0.00005
	A	0.00052	0.00066	0.00127
	B	0.00164	0.00177	0.00239
	B	-0.00005	-0.00005	-0.00005
	B	0.00004	0.00005	0.00005
	B	0.00057	0.00070	0.00132
	C	0.00153	0.00167	0.00232
	C	-0.00003	-0.00003	-0.00003
	C	0.00004	0.00005	0.00005
	C	0.00057	0.00071	0.00136
	D	0.00141	0.00160	0.00241
	D	0.00000	0.00000	0.00000
	D	0.00004	0.00005	0.00005
	D	0.00055	0.00073	0.00154

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00028	0.00028	0.00028
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00028	0.00028	0.00028
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00028	0.00028	0.00028
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00028	0.00028	0.00028
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00028	0.00028	0.00028
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00028	-0.00028	-0.00028
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00028	-0.00028	-0.00028
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00028	-0.00028	-0.00028
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00028	-0.00028	-0.00028
	(!B * C * !D * Y)	0.00009	0.00009	0.00009
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00028	-0.00028	-0.00028
	(!B * !C * D * Y)	0.00008	0.00009	0.00009
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00023	0.00023	0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00023	0.00023	0.00023
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00023	0.00023	0.00023
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00022	0.00023	0.00023
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00022	0.00022	0.00022
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00022	0.00023	0.00024
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00003	0.00003	0.00003
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00023	-0.00023	-0.00022
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00023	-0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00023	-0.00022	-0.00022
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * !D * Y)	0.00009	0.00010	0.00010
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00023	0.00023	0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00023	0.00023	0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00023	0.00024	0.00024
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00023	0.00023	0.00023
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00023	-0.00023	-0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00002	0.00002	0.00002
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00003	0.00003	0.00003
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00002	0.00002	0.00002
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00023	-0.00023	-0.00022
	(!A * !B * D * Y)	0.00009	0.00010	0.00010
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00029	0.00029	0.00029
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00029	0.00029	0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for D falling (conditional):

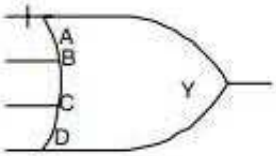
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00029	-0.00029	-0.00029
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00029	-0.00029	-0.00028
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00029	-0.00029	-0.00028

OR4X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1H7L	0.00076	0.00072	0.00070	0.00073	0.06131

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1H7L	0.00000	1.53779	4.61763

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7L	A->Y (RR)	0.03137	0.16078	0.47120
	B->Y (RR)	0.03051	0.15834	0.46697
	C->Y (RR)	0.02956	0.15577	0.46348
	D->Y (RR)	0.02862	0.15346	0.46063

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7L	A->Y (FF)	0.09909	0.21557	0.50066
	B->Y (FF)	0.09530	0.21809	0.51751
	C->Y (FF)	0.09038	0.21932	0.53072
	D->Y (FF)	0.08404	0.21447	0.52891

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7L	A	0.00043	0.00062	0.00131
	A	0.00008	0.00008	0.00008
	A	-0.00004	-0.00004	-0.00004
	A	0.00159	0.00177	0.00246
	B	0.00045	0.00063	0.00130
	B	0.00004	0.00005	0.00005
	B	-0.00004	-0.00004	-0.00004
	B	0.00146	0.00164	0.00231
	C	0.00046	0.00064	0.00129
	C	0.00002	0.00002	0.00002
	C	-0.00004	-0.00004	-0.00004
	C	0.00135	0.00153	0.00219
	D	0.00047	0.00066	0.00139
	D	-0.00001	-0.00001	0.00000
	D	-0.00004	-0.00004	-0.00004
	D	0.00129	0.00149	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7L	A	0.00175	0.00189	0.00255
	A	-0.00008	-0.00008	-0.00007
	A	0.00004	0.00004	0.00005
	A	0.00056	0.00071	0.00137
	B	0.00162	0.00176	0.00244
	B	-0.00005	-0.00005	-0.00004
	B	0.00004	0.00004	0.00005
	B	0.00056	0.00073	0.00141
	C	0.00151	0.00166	0.00237
	C	-0.00002	-0.00002	-0.00002
	C	0.00004	0.00004	0.00004
	C	0.00060	0.00075	0.00147
	D	0.00140	0.00160	0.00248
	D	0.00000	0.00001	0.00001
	D	0.00004	0.00004	0.00004
	D	0.00058	0.00077	0.00166

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00027	0.00027	0.00027
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00026	0.00027	0.00027
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00026	0.00027	0.00027
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00026	0.00027	0.00027
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * !D * Y)	0.00009	0.00009	0.00009
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!B * !C * D * Y)	0.00008	0.00009	0.00009
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(A * C * D * Y)	-0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00023	0.00023	0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00023	0.00023	0.00023
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00023	0.00023	0.00023
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00023	0.00023	0.00023
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00023	0.00023	0.00023
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00023	0.00023	0.00023
	(!A * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00003	0.00003	0.00003
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00023	-0.00023	-0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00023	-0.00023	-0.00023
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00023	-0.00023	-0.00022
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00022	0.00022	0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00022	0.00022	0.00022
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00022	0.00022	0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00022	0.00022	0.00022
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00022	0.00022	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00002	0.00002	0.00002
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00003	0.00003	0.00003
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00022	-0.00022	-0.00022
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00002	0.00002	0.00002
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !B * D * Y)	0.00010	0.00010	0.00010
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00029	0.00029	0.00029
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00029	0.00029	0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for D falling (conditional):

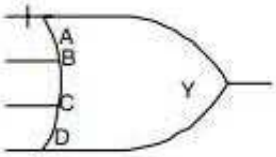
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00029	-0.00029	-0.00029
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00029	-0.00029	-0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00029	-0.00028	-0.00028

OR4X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1P4H7L	0.00076	0.00071	0.00069	0.00073	0.07001

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1P4H7L	0.00000	1.66544	4.64057

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7L	A->Y (RR)	0.03061	0.16062	0.47220
	B->Y (RR)	0.02981	0.15824	0.46829
	C->Y (RR)	0.02886	0.15572	0.46429
	D->Y (RR)	0.02786	0.15332	0.46116

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7L	A->Y (FF)	0.09888	0.21571	0.50028
	B->Y (FF)	0.09532	0.21850	0.51745
	C->Y (FF)	0.09038	0.21978	0.53082
	D->Y (FF)	0.08370	0.21471	0.52881

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7L	A	0.00047	0.00066	0.00139
	A	0.00007	0.00007	0.00007
	A	-0.00004	-0.00004	-0.00004
	A	0.00161	0.00180	0.00253
	B	0.00048	0.00067	0.00138
	B	0.00005	0.00005	0.00005
	B	-0.00004	-0.00004	-0.00004
	B	0.00148	0.00167	0.00238
	C	0.00049	0.00068	0.00138
	C	0.00002	0.00002	0.00002
	C	-0.00004	-0.00004	-0.00004
	C	0.00137	0.00156	0.00227
	D	0.00050	0.00072	0.00148
	D	-0.00001	-0.00001	0.00000
	D	-0.00004	-0.00004	-0.00003
	D	0.00131	0.00151	0.00228

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7L	A	0.00177	0.00192	0.00264
	A	-0.00007	-0.00007	-0.00007
	A	0.00004	0.00004	0.00004
	A	0.00059	0.00075	0.00147
	B	0.00165	0.00180	0.00253
	B	-0.00005	-0.00005	-0.00005
	B	0.00004	0.00004	0.00004
	B	0.00060	0.00077	0.00152
	C	0.00152	0.00169	0.00247
	C	-0.00002	-0.00002	-0.00001
	C	0.00004	0.00004	0.00004
	C	0.00062	0.00079	0.00158
	D	0.00142	0.00162	0.00259
	D	0.00000	0.00001	0.00001
	D	0.00003	0.00004	0.00004
	D	0.00061	0.00081	0.00178

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(B * D * Y)	-0.00008	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00026	0.00027	0.00027
	(B * C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00027	0.00027	0.00027
	(B * !C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00026	0.00027	0.00027
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00027	0.00027	0.00027
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00026	0.00027	0.00027
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(B * D * Y)	0.00008	0.00009	0.00009
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * C * !D * Y)	0.00008	0.00009	0.00009
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00027	-0.00026	-0.00026
	(!B * C * !D * Y)	0.00008	0.00009	0.00009
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(A * C * D * Y)	-0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00023	0.00023	0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00023	0.00023	0.00023
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00023	0.00023	0.00023
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00023	0.00023	0.00023
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00022	0.00022	0.00023
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00022	0.00023	0.00023
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00003	0.00003	0.00003
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00023	-0.00023	-0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00023	-0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00023	-0.00023	-0.00022
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * !D * Y)	0.00009	0.00010	0.00010
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00022	0.00022	0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00022	0.00022	0.00022
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00022	0.00022	0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00021	0.00022	0.00022
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00002	0.00002	0.00002
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00003	0.00003	0.00003
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00022	-0.00022	-0.00021
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00002	0.00002	0.00002
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !B * D * Y)	0.00010	0.00010	0.00010
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00028	0.00028	0.00029
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00028	0.00028	0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for D falling (conditional):

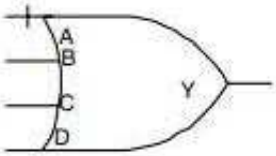
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00028	-0.00028	-0.00028
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00028	-0.00028	-0.00028
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00028	-0.00028	-0.00028

OR4X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X2H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X2H7L	0.00080	0.00075	0.00071	0.00070	0.09065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X2H7L	0.00000	2.39219	4.80745

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7L	A->Y (RR)	0.03405	0.16780	0.48511
	B->Y (RR)	0.03319	0.16559	0.47983
	C->Y (RR)	0.03199	0.16290	0.47506
	D->Y (RR)	0.03080	0.16054	0.47142

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7L	A->Y (FF)	0.11602	0.23785	0.52875
	B->Y (FF)	0.11238	0.24091	0.54723
	C->Y (FF)	0.10618	0.24161	0.56238
	D->Y (FF)	0.09874	0.23591	0.55990

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7L	A	0.00072	0.00092	0.00181
	A	0.00007	0.00007	0.00007
	A	-0.00003	-0.00003	-0.00003
	A	0.00188	0.00209	0.00298
	B	0.00072	0.00093	0.00180
	B	0.00001	0.00004	0.00004
	B	-0.00003	-0.00003	-0.00003
	B	0.00174	0.00196	0.00283
	C	0.00074	0.00094	0.00182
	C	0.00001	0.00001	0.00001
	C	-0.00004	-0.00003	-0.00003
	C	0.00163	0.00184	0.00271
	D	0.00074	0.00097	0.00191
	D	-0.00001	-0.00001	-0.00000
	D	-0.00003	-0.00003	-0.00003
	D	0.00155	0.00178	0.00271

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7L	A	0.00215	0.00236	0.00331
	A	-0.00007	-0.00007	-0.00006
	A	0.00003	0.00003	0.00004
	A	0.00091	0.00116	0.00211
	B	0.00203	0.00224	0.00324
	B	-0.00004	-0.00004	-0.00001
	B	0.00003	0.00003	0.00004
	B	0.00091	0.00120	0.00220
	C	0.00189	0.00212	0.00319
	C	-0.00001	-0.00001	-0.00001
	C	0.00003	0.00003	0.00004
	C	0.00095	0.00121	0.00229
	D	0.00177	0.00205	0.00336
	D	0.00000	0.00001	0.00002
	D	0.00003	0.00003	0.00004
	D	0.00097	0.00125	0.00255

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(B * D * Y)	-0.00008	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00029	0.00029	0.00029
	(B * C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00028	0.00029	0.00029
	(B * !C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00028	0.00029	0.00029
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00028	0.00029	0.00029
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00029	0.00029	0.00029
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00029	-0.00028	-0.00028
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00029	-0.00028	-0.00028
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00029	-0.00028	-0.00028
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00029	-0.00028	-0.00028
	(!B * C * !D * Y)	0.00009	0.00009	0.00009
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00029	-0.00028	-0.00028
	(!B * !C * D * Y)	0.00008	0.00009	0.00009
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00029	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(A * C * D * Y)	-0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00023	0.00023	0.00024
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00023	0.00023	0.00024
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00023	0.00024	0.00024
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00023	0.00023	0.00024
	(!A * C * D * Y)	-0.00009	-0.00009	-0.00008
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00023	0.00023	0.00023
	(!A * C * !D * Y)	-0.00009	-0.00009	-0.00007
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00023	0.00023	0.00024
	(!A * !C * D * Y)	-0.00009	-0.00008	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00023	0.00024	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00003	0.00003	0.00003
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00023	-0.00023	-0.00023
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00023	-0.00023	-0.00023
	(!A * C * D * Y)	0.00010	0.00010	0.00010
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00023	-0.00023	-0.00023
	(!A * C * !D * Y)	0.00010	0.00010	0.00010
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(!A * !C * D * Y)	0.00010	0.00010	0.00010
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00023	0.00023	0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00023	0.00023	0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00023	0.00023	0.00024
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00023	0.00023	0.00023
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00006
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00023	-0.00023	-0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00002	0.00002	0.00002
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00003	0.00003	0.00003
	(A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00002	0.00002	0.00002
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00023	-0.00023	-0.00022
	(!A * !B * D * Y)	0.00010	0.00010	0.00010
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00028	0.00028	0.00028
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00028	0.00028	0.00028
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for D falling (conditional):

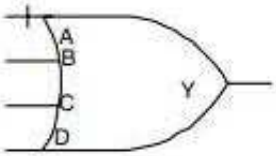
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00028	-0.00028	-0.00028
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00028	-0.00028	-0.00027
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00028	-0.00027	-0.00027

OR4X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X3H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X3H7L	0.00092	0.00082	0.00083	0.00082	0.12784

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X3H7L	0.00000	2.91922	5.65448

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7L	A->Y (RR)	0.02876	0.16105	0.47609
	B->Y (RR)	0.02787	0.15860	0.47015
	C->Y (RR)	0.02705	0.15627	0.46693
	D->Y (RR)	0.02593	0.15376	0.46335

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7L	A->Y (FF)	0.10014	0.22013	0.50533
	B->Y (FF)	0.09578	0.22238	0.52281
	C->Y (FF)	0.09144	0.22401	0.53701
	D->Y (FF)	0.08393	0.21806	0.53373

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7L	A	0.00081	0.00107	0.00223
	A	0.00009	0.00009	0.00009
	A	-0.00004	-0.00004	-0.00003
	A	0.00218	0.00244	0.00361
	B	0.00082	0.00108	0.00223
	B	0.00005	0.00006	0.00006
	B	-0.00004	-0.00004	-0.00004
	B	0.00199	0.00225	0.00340
	C	0.00082	0.00110	0.00224
	C	0.00002	0.00002	0.00002
	C	-0.00004	-0.00004	-0.00004
	C	0.00185	0.00212	0.00327
	D	0.00084	0.00113	0.00237
	D	-0.00002	-0.00002	0.00000
	D	-0.00004	-0.00004	-0.00004
	D	0.00174	0.00204	0.00328

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7L	A	0.00250	0.00275	0.00397
	A	-0.00009	-0.00009	-0.00008
	A	0.00003	0.00004	0.00005
	A	0.00097	0.00131	0.00255
	B	0.00232	0.00258	0.00387
	B	-0.00006	-0.00006	-0.00005
	B	0.00004	0.00004	0.00005
	B	0.00106	0.00137	0.00268
	C	0.00216	0.00244	0.00384
	C	-0.00002	-0.00002	-0.00002
	C	0.00004	0.00004	0.00005
	C	0.00109	0.00139	0.00280
	D	0.00201	0.00235	0.00404
	D	0.00000	0.00002	0.00002
	D	0.00004	0.00004	0.00005
	D	0.00103	0.00143	0.00313

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(B * D * Y)	-0.00011	-0.00011	-0.00010
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00031	0.00032	0.00032
	(B * C * !D * Y)	-0.00011	-0.00011	-0.00010
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00032	0.00032	0.00032
	(B * !C * !D * Y)	-0.00011	-0.00011	-0.00009
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00031	0.00032	0.00032
	(!B * C * D * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00032	0.00032	0.00032
	(!B * C * !D * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00031	0.00032	0.00032
	(!B * !C * D * Y)	-0.00011	-0.00010	-0.00008
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(B * D * Y)	0.00011	0.00012	0.00012
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00031	-0.00031	-0.00031
	(B * C * !D * Y)	0.00012	0.00012	0.00012
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00031	-0.00031	-0.00031
	(B * !C * !D * Y)	0.00012	0.00012	0.00013
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * D * Y)	0.00011	0.00011	0.00011
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * !D * Y)	0.00011	0.00012	0.00012
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00032	-0.00031	-0.00031
	(!B * !C * D * Y)	0.00011	0.00011	0.00012
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00032	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00024	0.00024	0.00025
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00024	0.00024	0.00025
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00025	0.00025	0.00025
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00024	0.00024	0.00025
	(!A * C * D * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00024	0.00024	0.00024
	(!A * C * !D * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00024	0.00024	0.00026
	(!A * !C * D * Y)	-0.00011	-0.00010	-0.00008
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00004	0.00004
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00024	-0.00024	-0.00024
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00024	-0.00024	-0.00024
	(!A * C * D * Y)	0.00012	0.00012	0.00012
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00024	-0.00024	-0.00024
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00024	-0.00024	-0.00023
	(!A * !C * D * Y)	0.00012	0.00012	0.00012
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	0.00000	0.00003
	(!A * !C * D * Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00025	0.00025	0.00026
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00025	0.00025	0.00025
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00025	0.00026	0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00025	0.00025	0.00025
	(!A * !B * D * Y)	-0.00012	-0.00011	-0.00009
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00025	0.00026	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00025	-0.00025	-0.00025
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00025	-0.00025	-0.00025
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00025	-0.00025	-0.00025
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00025	-0.00025	-0.00024
	(!A * !B * D * Y)	0.00013	0.00013	0.00013
	(!A * !B * D * Y)	0.00000	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00032	0.00032	0.00032
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00032	0.00032	0.00032
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00001
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for D falling (conditional):

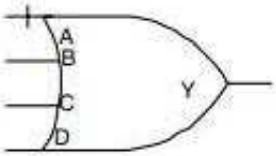
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00032	-0.00032	-0.00031
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00032	-0.00031	-0.00031
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00032	-0.00031	-0.00031

OR4X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X4H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X4H7L	0.00096	0.00092	0.00090	0.00088	0.17236

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X4H7L	0.00000	4.08801	6.49815

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7L	A->Y (RR)	0.02989	0.16408	0.48214
	B->Y (RR)	0.02929	0.16202	0.47717
	C->Y (RR)	0.02835	0.15969	0.47283
	D->Y (RR)	0.02719	0.15730	0.46938

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7L	A->Y (FF)	0.10989	0.23300	0.52276
	B->Y (FF)	0.10683	0.23627	0.54115
	C->Y (FF)	0.10170	0.23766	0.55650
	D->Y (FF)	0.09377	0.23128	0.55309

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7L	A	0.00127	0.00159	0.00310
	A	0.00010	0.00010	0.00010
	A	-0.00004	-0.00004	-0.00004
	A	0.00276	0.00309	0.00459
	B	0.00129	0.00161	0.00309
	B	0.00005	0.00006	0.00009
	B	-0.00005	-0.00004	-0.00004
	B	0.00258	0.00291	0.00439
	C	0.00130	0.00162	0.00311
	C	0.00000	0.00001	0.00001
	C	-0.00004	-0.00004	-0.00004
	C	0.00241	0.00274	0.00423
	D	0.00131	0.00166	0.00326
	D	-0.00003	-0.00003	-0.00002
	D	-0.00004	-0.00004	-0.00004
	D	0.00227	0.00264	0.00422

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7L	A	0.00312	0.00349	0.00517
	A	-0.00010	-0.00010	-0.00010
	A	0.00004	0.00005	0.00005
	A	0.00139	0.00193	0.00363
	B	0.00293	0.00332	0.00510
	B	-0.00007	-0.00006	-0.00005
	B	0.00004	0.00005	0.00005
	B	0.00147	0.00198	0.00378
	C	0.00274	0.00315	0.00509
	C	-0.00001	-0.00001	0.00000
	C	0.00004	0.00005	0.00005
	C	0.00148	0.00202	0.00397
	D	0.00256	0.00305	0.00538
	D	0.00003	0.00003	0.00004
	D	0.00004	0.00004	0.00005
	D	0.00153	0.00207	0.00441

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(B * D * Y)	-0.00013	-0.00012	-0.00011
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00033	0.00033	0.00033
	(B * C * !D * Y)	-0.00013	-0.00012	-0.00011
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00032	0.00033	0.00033
	(B * !C * !D * Y)	-0.00013	-0.00012	-0.00010
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00033	0.00033	0.00033
	(!B * C * D * Y)	-0.00013	-0.00011	-0.00009
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00033	0.00033	0.00033
	(!B * C * !D * Y)	-0.00013	-0.00011	-0.00009
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00033	0.00033	0.00033
	(!B * !C * D * Y)	-0.00012	-0.00011	-0.00009
	(!B * !C * D * Y)	-0.00002	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(B * D * Y)	0.00013	0.00013	0.00013
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00032	-0.00032	-0.00032
	(B * C * !D * Y)	0.00013	0.00013	0.00013
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00033	-0.00032	-0.00032
	(B * !C * !D * Y)	0.00014	0.00014	0.00014
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * D * Y)	0.00013	0.00013	0.00013
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * !D * Y)	0.00013	0.00013	0.00013
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * !C * D * Y)	0.00012	0.00013	0.00013
	(!B * !C * D * Y)	0.00001	0.00001	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00033	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00028	0.00028	0.00028
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00028	0.00028	0.00028
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00028	0.00028	0.00028
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00028	0.00028	0.00028
	(!A * C * D * Y)	-0.00013	-0.00012	-0.00011
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00028	0.00028	0.00028
	(!A * C * !D * Y)	-0.00013	-0.00012	-0.00010
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00028	0.00028	0.00028
	(!A * !C * D * Y)	-0.00013	-0.00011	-0.00009
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00005	0.00005	0.00005
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00028	-0.00028	-0.00027
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00005	0.00005	0.00005
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00028	-0.00028	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00001
	(A * !C * D * Y)	0.00004	0.00005	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00028	-0.00028	-0.00027
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00028	-0.00028	-0.00027
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * !D * Y)	0.00015	0.00015	0.00015
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * D * Y)	0.00013	0.00014	0.00014
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00027	0.00027	0.00027
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00027	0.00028	0.00028
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00027	0.00027	0.00027
	(!A * !B * D * Y)	-0.00013	-0.00012	-0.00010
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00001
	(!A * !B * D * Y)	0.00027	0.00028	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00005	0.00005
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00027	-0.00026	-0.00026
	(!A * !B * D * Y)	0.00015	0.00015	0.00015
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00034	0.00034	0.00034
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00034	0.00034	0.00034
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for D falling (conditional):

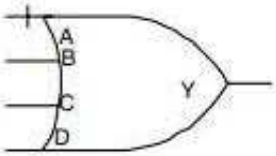
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00034	-0.00034	-0.00033
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00034	-0.00033	-0.00033
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00034	-0.00034	-0.00033

OR4X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X6H7L	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X6H7L	0.00106	0.00106	0.00100	0.00129	0.25636

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X6H7L	0.00000	5.60988	8.16774

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7L	A->Y (RR)	0.03059	0.16752	0.49021
	B->Y (RR)	0.03004	0.16563	0.48542
	C->Y (RR)	0.02906	0.16332	0.48022
	D->Y (RR)	0.02713	0.15680	0.46847

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7L	A->Y (FF)	0.11827	0.24551	0.53957
	B->Y (FF)	0.11576	0.24931	0.55959
	C->Y (FF)	0.11023	0.25051	0.57603
	D->Y (FF)	0.10536	0.24733	0.57989

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7L	A	0.00176	0.00216	0.00431
	A	0.00010	0.00010	0.00011
	A	-0.00004	-0.00004	0.00003
	A	0.00345	0.00391	0.00606
	B	0.00177	0.00218	0.00431
	B	0.00004	0.00005	0.00005
	B	-0.00004	-0.00004	0.00002
	B	0.00324	0.00371	0.00584
	C	0.00178	0.00219	0.00435
	C	0.00000	0.00000	0.00001
	C	-0.00004	-0.00004	-0.00003
	C	0.00309	0.00351	0.00565
	D	0.00176	0.00223	0.00457
	D	-0.00006	-0.00006	-0.00005
	D	-0.00004	-0.00004	-0.00003
	D	0.00301	0.00350	0.00583

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7L	A	0.00407	0.00467	0.00718
	A	-0.00011	-0.00010	-0.00010
	A	0.00003	0.00004	0.00004
	A	0.00191	0.00283	0.00537
	B	0.00385	0.00447	0.00715
	B	-0.00005	-0.00005	-0.00004
	B	0.00003	0.00004	0.00004
	B	0.00210	0.00288	0.00558
	C	0.00362	0.00428	0.00720
	C	-0.00000	-0.00000	0.00000
	C	0.00003	0.00004	0.00004
	C	0.00200	0.00292	0.00588
	D	0.00345	0.00423	0.00772
	D	0.00006	0.00006	0.00006
	D	0.00003	0.00004	0.00004
	D	0.00207	0.00295	0.00645

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(B * D * Y)	-0.00015	-0.00014	-0.00013
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00035	0.00035	0.00035
	(B * C * !D * Y)	-0.00015	-0.00014	-0.00013
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00035	0.00035	0.00035
	(B * !C * !D * Y)	-0.00015	-0.00014	-0.00013
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00035	0.00035	0.00035
	(!B * C * D * Y)	-0.00015	-0.00014	-0.00011
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00035	0.00035	0.00035
	(!B * C * !D * Y)	-0.00015	-0.00014	-0.00011
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00035	0.00035	0.00035
	(!B * !C * D * Y)	-0.00015	-0.00013	-0.00011
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(B * D * Y)	0.00016	0.00016	0.00016
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00034	-0.00034	-0.00034
	(B * C * !D * Y)	0.00016	0.00016	0.00016
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00034	-0.00034	-0.00034
	(B * !C * !D * Y)	0.00017	0.00017	0.00017
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00034	-0.00034	-0.00034
	(!B * C * D * Y)	0.00015	0.00015	0.00016
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00034	-0.00034	-0.00034
	(!B * C * !D * Y)	0.00016	0.00016	0.00016
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00034	-0.00034	-0.00034
	(!B * !C * D * Y)	0.00015	0.00016	0.00016
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00034	-0.00034	-0.00034

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00031	0.00031	0.00031
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00031	0.00032	0.00032
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00031	0.00032	0.00032
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00031	0.00031	0.00031
	(!A * C * D * Y)	-0.00016	-0.00015	-0.00013
	(!A * C * D * Y)	-0.00002	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00031	0.00031	0.00031
	(!A * C * !D * Y)	-0.00016	-0.00015	-0.00012
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00031	0.00031	0.00031
	(!A * !C * D * Y)	-0.00016	-0.00013	-0.00010
	(!A * !C * D * Y)	-0.00002	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00031	0.00031	0.00032

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00006	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00031	-0.00031	-0.00031
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00006	0.00006	0.00006
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00031	-0.00031	-0.00031
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00006	0.00006	0.00006
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00031	-0.00031	-0.00030
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00004	0.00004	0.00004
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!A * C * D * Y)	0.00016	0.00016	0.00017
	(!A * C * D * Y)	0.00001	0.00001	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00030	-0.00030	-0.00030
	(!A * C * !D * Y)	0.00017	0.00018	0.00018
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00030	-0.00030	-0.00030
	(!A * !C * D * Y)	0.00016	0.00016	0.00017
	(!A * !C * D * Y)	0.00001	0.00001	0.00002
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00031	-0.00030	-0.00030

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00029	0.00030	0.00030
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00004	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00029	0.00029	0.00029
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00029	0.00030	0.00031
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00001
	(A * !B * !D * Y)	0.00029	0.00029	0.00030
	(!A * !B * D * Y)	-0.00016	-0.00014	-0.00012
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00001
	(!A * !B * D * Y)	0.00029	0.00030	0.00033

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00028	-0.00028	-0.00028
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00004	0.00004
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00028	-0.00028	-0.00028
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00006	0.00006	0.00006
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00028	-0.00028	-0.00028
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00004	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00029	-0.00028	-0.00028
	(!A * !B * D * Y)	0.00017	0.00017	0.00018
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00001
	(C * Y)	0.00050	0.00050	0.00050
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	0.00049	0.00050	0.00051
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00050	0.00050	0.00051

Passive power(pJ) for D falling (conditional):

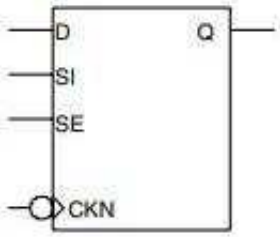
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7L	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00050	-0.00050	-0.00049
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00050	-0.00050	-0.00049
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00003	0.00003	0.00003
	(A * !B * !C * Y)	-0.00001	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00050	-0.00050	-0.00049

SDFFNQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX1H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX1H7L	0.00096	0.00060	0.00179	0.00073	0.06137

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX1H7L	0.00000	5.37932	6.39182

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7L	CKN->Q (FR)	(D * SE)	0.07849	0.23892	0.62472
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.07849	0.23892	0.62472
	CKN->Q (FR)	(!SE * !SI)	0.07849	0.23892	0.62472
	CKN->Q (FR)	(!D * SI)	0.07849	0.23893	0.62472

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7L	CKN->Q (FF)	(D * SE)	0.12264	0.24813	0.52335
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.12264	0.24814	0.52346
	CKN->Q (FF)	(!SE * !SI)	0.12267	0.24817	0.52342
	CKN->Q (FF)	(!D * SI)	0.12267	0.24816	0.52336

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	**hold**	**CKN (F)**	-0.05876	0.01064	0.10549
	setup	**CKN (F)**	-0.07458	0.02312	0.10171

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	**hold**	**CKN (F)**	-0.16972	-0.06201	0.01933
	setup	**CKN (F)**	-0.01048	0.08003	0.19872

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	**hold**	**CKN (F)**	-0.04004	0.01930	0.11225
	setup	**CKN (F)**	0.02199	0.07927	0.11549

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	**hold**	**CKN (F)**	-0.12816	-0.02016	0.08907
	setup	**CKN (F)**	-0.02453	0.06566	0.17636

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	hold	CKN (F)	-0.05860	0.00966	0.10699
	setup	CKN (F)	-0.07608	0.02487	0.09995

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7L	hold	CKN (F)	-0.19596	-0.07991	0.00214
	setup	CKN (F)	0.01056	0.10013	0.22796

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7L	CKN	(D * SE)	0.00368	0.00404	0.00524
	CKN	(D * SE)	0.00002	0.00004	0.00008
	CKN	(D * SE)	-0.00005	-0.00003	-0.00001
	CKN	(D * SE)	0.00315	0.00349	0.00468
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00371	0.00405	0.00524
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00004	0.00005
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00005	-0.00003	0.00001
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00315	0.00349	0.00468
	CKN	(!SE * !SI)	0.00371	0.00405	0.00524
	CKN	(!SE * !SI)	0.00003	0.00004	0.00005
	CKN	(!SE * !SI)	-0.00005	-0.00003	0.00001
	CKN	(!SE * !SI)	0.00315	0.00349	0.00468
	CKN	(!D * SI)	0.00371	0.00404	0.00524
	CKN	(!D * SI)	0.00001	0.00004	0.00004
	CKN	(!D * SI)	-0.00005	-0.00003	0.00000
	CKN	(!D * SI)	0.00311	0.00349	0.00468

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7L	CKN	(D * SE)	0.00426	0.00453	0.00553
	CKN	(D * SE)	-0.00002	-0.00002	0.00001
	CKN	(D * SE)	0.00005	0.00005	0.00006
	CKN	(D * SE)	0.00357	0.00384	0.00484
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00426	0.00453	0.00553
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00003	-0.00002	0.00001
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00005	0.00006
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00357	0.00384	0.00484
	CKN	(!SE * !SI)	0.00426	0.00453	0.00553
	CKN	(!SE * !SI)	-0.00004	-0.00002	-0.00002
	CKN	(!SE * !SI)	0.00005	0.00005	0.00007
	CKN	(!SE * !SI)	0.00356	0.00384	0.00484
	CKN	(!D * SI)	0.00426	0.00454	0.00553
	CKN	(!D * SI)	-0.00004	-0.00002	-0.00001
	CKN	(!D * SI)	0.00005	0.00005	0.00007
	CKN	(!D * SI)	0.00357	0.00384	0.00484

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(D * SE * SI)**	0.00331	0.00358	0.00455
	(D * SE * SI)	-0.00000	0.00000	0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00394	0.00421	0.00518
	(D * SE * !SI)	0.00273	0.00299	0.00396
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00334	0.00361	0.00458
	(D * !SE * SI)	0.00331	0.00359	0.00456
	(D * !SE * SI)	-0.00000	0.00000	0.00001
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00394	0.00421	0.00518
	(D * !SE * !SI)	0.00331	0.00359	0.00456
	(D * !SE * !SI)	-0.00000	0.00000	0.00001
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00394	0.00421	0.00518
	(!D * SE * SI)	0.00331	0.00359	0.00456
	(!D * SE * SI)	-0.00000	0.00000	0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00394	0.00421	0.00518
	(!D * SE * !SI)	0.00273	0.00299	0.00396
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00333	0.00361	0.00458
	(!D * !SE * SI)	0.00272	0.00299	0.00397
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !SE * SI)	0.00335	0.00361	0.00459
	(!D * !SE * !SI)	0.00272	0.00299	0.00397
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00335	0.00361	0.00459

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(D * SE * SI)**	0.00224	0.00252	0.00350
	(D * SE * SI)	-0.00000	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00163	0.00191	0.00288
	(D * SE * !SI)	0.00237	0.00265	0.00362
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00001	0.00002	0.00002
	(D * SE * !SI)	0.00174	0.00201	0.00299
	(D * !SE * SI)	0.00224	0.00252	0.00350
	(D * !SE * SI)	0.00000	0.00001	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00163	0.00191	0.00288
	(D * !SE * !SI)	0.00224	0.00252	0.00350
	(D * !SE * !SI)	0.00000	0.00001	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00163	0.00191	0.00288
	(!D * SE * SI)	0.00224	0.00252	0.00350
	(!D * SE * SI)	0.00000	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00163	0.00191	0.00288
	(!D * SE * !SI)	0.00237	0.00265	0.00362
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00001	0.00002	0.00002
	(!D * SE * !SI)	0.00173	0.00201	0.00299
	(!D * !SE * SI)	0.00237	0.00265	0.00363
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00174	0.00201	0.00299
	(!D * !SE * !SI)	0.00237	0.00265	0.00362
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !SE * !SI)	0.00174	0.00201	0.00299

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00026	0.00026	0.00027
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00026	0.00026	0.00026
	(CKN * !SE * SI)	0.00166	0.00180	0.00231
	(CKN * !SE * SI)	0.00007	0.00007	0.00008
	(CKN * !SE * SI)	-0.00010	-0.00009	-0.00009
	(CKN * !SE * SI)	0.00244	0.00257	0.00308
	(CKN * !SE * !SI)	0.00166	0.00180	0.00231
	(CKN * !SE * !SI)	0.00007	0.00007	0.00008
	(CKN * !SE * !SI)	-0.00010	-0.00009	-0.00009
	(CKN * !SE * !SI)	0.00244	0.00258	0.00308
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	0.00026	0.00026	0.00028
	(!CKN * SE * !SI)	-0.00008	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00026	0.00026	0.00027
	(!CKN * !SE * SI)	0.00031	0.00044	0.00094
	(!CKN * !SE * SI)	0.00007	0.00007	0.00007
	(!CKN * !SE * SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * SI)	0.00113	0.00126	0.00176
	(!CKN * !SE * !SI)	0.00031	0.00044	0.00094
	(!CKN * !SE * !SI)	0.00007	0.00007	0.00007
	(!CKN * !SE * !SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * !SI)	0.00113	0.00126	0.00176

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(CKN * SE * SI)**	0.00010	0.00010	0.00010
	(CKN * SE * SI)	0.00000	0.00000	0.00000
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * SI)	-0.00025	-0.00025	-0.00025
	(CKN * SE * !SI)	0.00009	0.00010	0.00010
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CKN * !SE * SI)	0.00190	0.00205	0.00264
	(CKN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * SI)	0.00009	0.00009	0.00010
	(CKN * !SE * SI)	0.00111	0.00127	0.00186
	(CKN * !SE * !SI)	0.00189	0.00205	0.00264
	(CKN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * !SI)	0.00009	0.00009	0.00010
	(CKN * !SE * !SI)	0.00111	0.00127	0.00186
	(!CKN * SE * SI)	0.00010	0.00010	0.00010
	(!CKN * SE * SI)	0.00000	0.00000	0.00000
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	-0.00025	-0.00025	-0.00024
	(!CKN * SE * !SI)	0.00009	0.00010	0.00010
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CKN * !SE * SI)	0.00094	0.00109	0.00164
	(!CKN * !SE * SI)	-0.00007	-0.00007	-0.00007
	(!CKN * !SE * SI)	0.00008	0.00008	0.00008
	(!CKN * !SE * SI)	0.00011	0.00026	0.00081
	(!CKN * !SE * !SI)	0.00094	0.00109	0.00164
	(!CKN * !SE * !SI)	-0.00007	-0.00007	-0.00007
	(!CKN * !SE * !SI)	0.00008	0.00008	0.00008
	(!CKN * !SE * !SI)	0.00011	0.00026	0.00081

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(CKN * D * SI)**	-0.00010	0.00018	0.00115
	(CKN * D * SI)	0.00001	0.00001	0.00002
	(CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(CKN * D * SI)	0.00095	0.00123	0.00221
	(CKN * D * !SI)	0.00201	0.00229	0.00325
	(CKN * D * !SI)	-0.00005	-0.00004	-0.00003
	(CKN * D * !SI)	0.00004	0.00006	0.00006
	(CKN * D * !SI)	0.00273	0.00301	0.00397
	(CKN * !D * SI)	0.00125	0.00176	0.00349
	(CKN * !D * SI)	0.00006	0.00007	0.00007
	(CKN * !D * SI)	-0.00009	-0.00009	-0.00008
	(CKN * !D * SI)	0.00263	0.00314	0.00489
	(CKN * !D * !SI)	-0.00002	0.00027	0.00125
	(CKN * !D * !SI)	0.00001	0.00002	0.00003
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00104	0.00133	0.00231
	(!CKN * D * SI)	-0.00010	0.00018	0.00115
	(!CKN * D * SI)	0.00001	0.00001	0.00001
	(!CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(!CKN * D * SI)	0.00095	0.00123	0.00221
	(!CKN * D * !SI)	0.00104	0.00131	0.00228
	(!CKN * D * !SI)	-0.00005	-0.00004	-0.00004
	(!CKN * D * !SI)	0.00003	0.00004	0.00005
	(!CKN * D * !SI)	0.00171	0.00198	0.00293
	(!CKN * !D * SI)	-0.00012	0.00040	0.00216
	(!CKN * !D * SI)	0.00006	0.00007	0.00007
	(!CKN * !D * SI)	-0.00008	-0.00008	-0.00007
	(!CKN * !D * SI)	0.00131	0.00184	0.00360
	(!CKN * !D * !SI)	-0.00002	0.00027	0.00126
	(!CKN * !D * !SI)	0.00001	0.00001	0.00002
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00103	0.00133	0.00231

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(CKN * D * SI)**	0.00098	0.00130	0.00238
	(CKN * D * SI)	-0.00001	-0.00001	-0.00001
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00007	0.00025	0.00132
	(CKN * D * !SI)	0.00274	0.00308	0.00419
	(CKN * D * !SI)	0.00003	0.00004	0.00005
	(CKN * D * !SI)	-0.00006	-0.00006	-0.00004
	(CKN * D * !SI)	0.00202	0.00236	0.00349
	(CKN * !D * SI)	0.00240	0.00298	0.00489
	(CKN * !D * SI)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SI)	0.00008	0.00009	0.00009
	(CKN * !D * SI)	0.00104	0.00160	0.00350
	(CKN * !D * !SI)	0.00087	0.00119	0.00227
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00001	0.00002	0.00002
	(CKN * !D * !SI)	-0.00019	0.00013	0.00121
	(!CKN * D * SI)	0.00097	0.00130	0.00238
	(!CKN * D * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * D * SI)	0.00001	0.00002	0.00002
	(!CKN * D * SI)	-0.00007	0.00025	0.00132
	(!CKN * D * !SI)	0.00140	0.00173	0.00283
	(!CKN * D * !SI)	0.00004	0.00004	0.00006
	(!CKN * D * !SI)	-0.00005	-0.00004	-0.00003
	(!CKN * D * !SI)	0.00074	0.00107	0.00219
	(!CKN * !D * SI)	0.00145	0.00203	0.00395
	(!CKN * !D * SI)	-0.00007	-0.00007	-0.00006
	(!CKN * !D * SI)	0.00007	0.00008	0.00008
	(!CKN * !D * SI)	0.00002	0.00059	0.00251
	(!CKN * !D * !SI)	0.00086	0.00119	0.00227
	(!CKN * !D * !SI)	-0.00002	-0.00001	-0.00000
	(!CKN * !D * !SI)	0.00001	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00018	0.00014	0.00121

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7L	**(CKN * D * SE)**	0.00136	0.00148	0.00194
	(CKN * D * SE)	0.00007	0.00007	0.00007
	(CKN * D * SE)	-0.00010	-0.00009	-0.00009
	(CKN * D * SE)	0.00213	0.00225	0.00270
	(CKN * D * !SE)	-0.00010	-0.00009	-0.00008
	(CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00024	0.00024	0.00025
	(CKN * !D * SE)	0.00136	0.00148	0.00194
	(CKN * !D * SE)	0.00006	0.00007	0.00007
	(CKN * !D * SE)	-0.00010	-0.00009	-0.00009
	(CKN * !D * SE)	0.00213	0.00225	0.00270
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00013
	(CKN * !D * !SE)	-0.00001	-0.00001	0.00000
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00021	0.00021	0.00021
	(!CKN * D * SE)	0.00001	0.00012	0.00056
	(!CKN * D * SE)	0.00007	0.00007	0.00007
	(!CKN * D * SE)	-0.00008	-0.00008	-0.00008
	(!CKN * D * SE)	0.00081	0.00093	0.00136
	(!CKN * D * !SE)	-0.00010	-0.00009	-0.00008
	(!CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * D * !SE)	0.00000	0.00001	0.00001
	(!CKN * D * !SE)	0.00024	0.00024	0.00025
	(!CKN * !D * SE)	0.00001	0.00012	0.00056
	(!CKN * !D * SE)	0.00006	0.00007	0.00007
	(!CKN * !D * SE)	-0.00008	-0.00008	-0.00008
	(!CKN * !D * SE)	0.00081	0.00093	0.00136
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00013
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00021	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

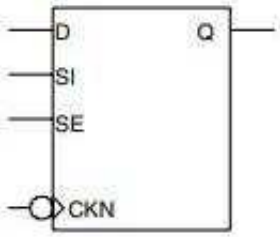
SDFFNQX1H7L	**(CKN * D * SE)**	0.00220	0.00234	0.00285
	(CKN * D * SE)	-0.00007	-0.00007	-0.00006
	(CKN * D * SE)	0.00009	0.00009	0.00010
	(CKN * D * SE)	0.00144	0.00158	0.00210
	(CKN * D * !SE)	0.00011	0.00011	0.00011
	(CKN * D * !SE)	0.00000	0.00000	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00023	-0.00023	-0.00023
	(CKN * !D * SE)	0.00220	0.00234	0.00285
	(CKN * !D * SE)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SE)	0.00009	0.00009	0.00010
	(CKN * !D * SE)	0.00143	0.00158	0.00210
	(CKN * !D * !SE)	0.00014	0.00015	0.00015
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00020	-0.00019	-0.00018
	(!CKN * D * SE)	0.00120	0.00133	0.00180
	(!CKN * D * SE)	-0.00007	-0.00006	-0.00006
	(!CKN * D * SE)	0.00008	0.00008	0.00008
	(!CKN * D * SE)	0.00040	0.00053	0.00100
	(!CKN * D * !SE)	0.00011	0.00011	0.00011
	(!CKN * D * !SE)	0.00000	0.00000	0.00000
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(!CKN * D * !SE)	-0.00023	-0.00023	-0.00023
	(!CKN * !D * SE)	0.00120	0.00133	0.00180
	(!CKN * !D * SE)	-0.00007	-0.00006	-0.00006
	(!CKN * !D * SE)	0.00008	0.00008	0.00008
	(!CKN * !D * SE)	0.00040	0.00053	0.00100
	(!CKN * !D * !SE)	0.00014	0.00015	0.00016
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00020	-0.00019	-0.00019

SDFFNQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX2H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX2H7L	0.00097	0.00062	0.00182	0.00072	0.09136

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX2H7L	0.00000	6.82525	10.38060

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7L	CKN->Q (FR)	(D * SE)	0.08362	0.24819	0.64036
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.08361	0.24819	0.64016
	CKN->Q (FR)	(!SE * !SI)	0.08361	0.24817	0.63977
	CKN->Q (FR)	(!D * SI)	0.08362	0.24818	0.63978

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7L	CKN->Q (FF)	(D * SE)	0.13265	0.26325	0.54364
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.13265	0.26325	0.54364
	CKN->Q (FF)	(!SE * !SI)	0.13266	0.26328	0.54373
	CKN->Q (FF)	(!D * SI)	0.13266	0.26327	0.54381

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	**hold**	**CKN (F)**	-0.05500	0.01259	0.10692
	setup	**CKN (F)**	-0.08209	0.01888	0.09508

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	**hold**	**CKN (F)**	-0.16538	-0.05964	0.02283
	setup	**CKN (F)**	-0.01385	0.07694	0.19476

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	**hold**	**CKN (F)**	-0.04324	0.01862	0.11176
	setup	**CKN (F)**	0.02127	0.07893	0.11729

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	**hold**	**CKN (F)**	-0.12522	-0.01923	0.09004
	setup	**CKN (F)**	-0.02616	0.06253	0.16741

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	hold	CKN (F)	-0.05886	0.00881	0.10559
	setup	CKN (F)	-0.07649	0.02292	0.10139

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7L	hold	CKN (F)	-0.19571	-0.07955	0.00285
	setup	CKN (F)	0.00887	0.09953	0.22700

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7L	CKN	(D * SE)	0.00398	0.00436	0.00565
	CKN	(D * SE)	0.00002	0.00003	0.00008
	CKN	(D * SE)	-0.00002	-0.00002	0.00003
	CKN	(D * SE)	0.00342	0.00378	0.00508
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00401	0.00436	0.00565
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00000	0.00003	0.00006
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00004	-0.00002	0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00344	0.00379	0.00508
	CKN	(!SE * !SI)	0.00401	0.00436	0.00566
	CKN	(!SE * !SI)	-0.00002	0.00003	0.00003
	CKN	(!SE * !SI)	-0.00005	-0.00002	-0.00002
	CKN	(!SE * !SI)	0.00344	0.00379	0.00508
	CKN	(!D * SI)	0.00398	0.00436	0.00565
	CKN	(!D * SI)	0.00002	0.00003	0.00008
	CKN	(!D * SI)	-0.00004	-0.00002	0.00002
	CKN	(!D * SI)	0.00342	0.00379	0.00508

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7L	CKN	(D * SE)	0.00476	0.00506	0.00616
	CKN	(D * SE)	-0.00003	-0.00001	-0.00000
	CKN	(D * SE)	0.00003	0.00004	0.00005
	CKN	(D * SE)	0.00409	0.00440	0.00550
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00476	0.00506	0.00616
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00004	-0.00001	0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00004	0.00004	0.00005
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00409	0.00439	0.00550
	CKN	(!SE * !SI)	0.00476	0.00506	0.00616
	CKN	(!SE * !SI)	-0.00002	-0.00001	0.00003
	CKN	(!SE * !SI)	0.00004	0.00004	0.00005
	CKN	(!SE * !SI)	0.00409	0.00440	0.00550
	CKN	(!D * SI)	0.00476	0.00507	0.00617
	CKN	(!D * SI)	-0.00001	-0.00001	0.00001
	CKN	(!D * SI)	0.00004	0.00004	0.00005
	CKN	(!D * SI)	0.00409	0.00440	0.00550

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(D * SE * SI)**	0.00335	0.00363	0.00459
	(D * SE * SI)	-0.00000	0.00000	0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00397	0.00424	0.00520
	(D * SE * !SI)	0.00275	0.00303	0.00401
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00001	0.00001
	(D * SE * !SI)	0.00340	0.00366	0.00464
	(D * !SE * SI)	0.00336	0.00363	0.00459
	(D * !SE * SI)	-0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00398	0.00424	0.00520
	(D * !SE * !SI)	0.00336	0.00363	0.00459
	(D * !SE * !SI)	-0.00000	0.00000	0.00001
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00398	0.00424	0.00520
	(!D * SE * SI)	0.00335	0.00363	0.00459
	(!D * SE * SI)	-0.00000	0.00000	0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00397	0.00424	0.00520
	(!D * SE * !SI)	0.00275	0.00303	0.00401
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00340	0.00366	0.00464
	(!D * !SE * SI)	0.00277	0.00303	0.00401
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !SE * SI)	0.00339	0.00366	0.00464
	(!D * !SE * !SI)	0.00277	0.00303	0.00401
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00339	0.00366	0.00464

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(D * SE * SI)**	0.00227	0.00255	0.00352
	(D * SE * SI)	0.00000	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00167	0.00194	0.00291
	(D * SE * !SI)	0.00243	0.00270	0.00368
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00001	0.00001	0.00002
	(D * SE * !SI)	0.00180	0.00207	0.00304
	(D * !SE * SI)	0.00227	0.00255	0.00352
	(D * !SE * SI)	-0.00000	0.00001	0.00001
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00166	0.00194	0.00291
	(D * !SE * !SI)	0.00228	0.00255	0.00352
	(D * !SE * !SI)	-0.00000	0.00001	0.00001
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00167	0.00194	0.00291
	(!D * SE * SI)	0.00227	0.00255	0.00352
	(!D * SE * SI)	0.00000	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00167	0.00194	0.00291
	(!D * SE * !SI)	0.00242	0.00270	0.00367
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00001	0.00001	0.00002
	(!D * SE * !SI)	0.00180	0.00207	0.00304
	(!D * !SE * SI)	0.00242	0.00270	0.00367
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00001	0.00001	0.00001
	(!D * !SE * SI)	0.00180	0.00207	0.00304
	(!D * !SE * !SI)	0.00242	0.00270	0.00367
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00001	0.00001	0.00001
	(!D * !SE * !SI)	0.00180	0.00207	0.00304

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * SI)	0.00000	0.00001	0.00001
	(CKN * SE * SI)	0.00026	0.00027	0.00027
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00008
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00027	0.00027	0.00027
	(CKN * !SE * SI)	0.00168	0.00182	0.00235
	(CKN * !SE * SI)	0.00007	0.00007	0.00008
	(CKN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(CKN * !SE * SI)	0.00247	0.00261	0.00314
	(CKN * !SE * !SI)	0.00169	0.00183	0.00235
	(CKN * !SE * !SI)	0.00007	0.00007	0.00008
	(CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CKN * !SE * !SI)	0.00247	0.00262	0.00314
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	0.00026	0.00027	0.00029
	(!CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00027	0.00027	0.00027
	(!CKN * !SE * SI)	0.00028	0.00042	0.00093
	(!CKN * !SE * SI)	0.00007	0.00007	0.00008
	(!CKN * !SE * SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * SI)	0.00112	0.00126	0.00178
	(!CKN * !SE * !SI)	0.00028	0.00042	0.00093
	(!CKN * !SE * !SI)	0.00007	0.00007	0.00008
	(!CKN * !SE * !SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * !SI)	0.00112	0.00126	0.00178

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(CKN * SE * SI)**	0.00010	0.00010	0.00010
	(CKN * SE * SI)	0.00000	0.00000	0.00000
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * SI)	-0.00025	-0.00025	-0.00025
	(CKN * SE * !SI)	0.00010	0.00010	0.00011
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00026	-0.00025	-0.00023
	(CKN * !SE * SI)	0.00194	0.00211	0.00271
	(CKN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * SI)	0.00009	0.00010	0.00010
	(CKN * !SE * SI)	0.00114	0.00131	0.00192
	(CKN * !SE * !SI)	0.00194	0.00211	0.00271
	(CKN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * !SI)	0.00009	0.00010	0.00010
	(CKN * !SE * !SI)	0.00114	0.00131	0.00192
	(!CKN * SE * SI)	0.00010	0.00010	0.00010
	(!CKN * SE * SI)	0.00000	0.00000	0.00000
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	-0.00025	-0.00025	-0.00025
	(!CKN * SE * !SI)	0.00010	0.00011	0.00011
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00025	-0.00025	-0.00023
	(!CKN * !SE * SI)	0.00100	0.00115	0.00172
	(!CKN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(!CKN * !SE * SI)	0.00008	0.00008	0.00008
	(!CKN * !SE * SI)	0.00015	0.00030	0.00088
	(!CKN * !SE * !SI)	0.00100	0.00115	0.00172
	(!CKN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(!CKN * !SE * !SI)	0.00008	0.00008	0.00008
	(!CKN * !SE * !SI)	0.00014	0.00030	0.00087

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(CKN * D * SI)**	-0.00010	0.00018	0.00115
	(CKN * D * SI)	0.00001	0.00001	0.00002
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00096	0.00125	0.00222
	(CKN * D * !SI)	0.00205	0.00233	0.00329
	(CKN * D * !SI)	-0.00004	-0.00004	-0.00002
	(CKN * D * !SI)	0.00006	0.00006	0.00007
	(CKN * D * !SI)	0.00279	0.00306	0.00403
	(CKN * !D * SI)	0.00126	0.00177	0.00353
	(CKN * !D * SI)	0.00006	0.00007	0.00008
	(CKN * !D * SI)	-0.00010	-0.00010	-0.00009
	(CKN * !D * SI)	0.00266	0.00317	0.00493
	(CKN * !D * !SI)	-0.00002	0.00027	0.00125
	(CKN * !D * !SI)	0.00001	0.00002	0.00003
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00105	0.00134	0.00232
	(!CKN * D * SI)	-0.00010	0.00018	0.00115
	(!CKN * D * SI)	0.00001	0.00001	0.00001
	(!CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(!CKN * D * SI)	0.00096	0.00125	0.00222
	(!CKN * D * !SI)	0.00109	0.00137	0.00233
	(!CKN * D * !SI)	-0.00005	-0.00004	-0.00004
	(!CKN * D * !SI)	0.00004	0.00005	0.00007
	(!CKN * D * !SI)	0.00177	0.00204	0.00299
	(!CKN * !D * SI)	-0.00016	0.00037	0.00214
	(!CKN * !D * SI)	0.00006	0.00007	0.00007
	(!CKN * !D * SI)	-0.00008	-0.00008	-0.00007
	(!CKN * !D * SI)	0.00130	0.00183	0.00360
	(!CKN * !D * !SI)	-0.00002	0.00027	0.00125
	(!CKN * !D * !SI)	0.00000	0.00001	0.00002
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00105	0.00134	0.00233

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(CKN * D * SI)**	0.00099	0.00131	0.00238
	(CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00008	0.00024	0.00132
	(CKN * D * !SI)	0.00278	0.00311	0.00423
	(CKN * D * !SI)	0.00002	0.00004	0.00004
	(CKN * D * !SI)	-0.00007	-0.00006	-0.00006
	(CKN * D * !SI)	0.00204	0.00238	0.00351
	(CKN * !D * SI)	0.00245	0.00302	0.00495
	(CKN * !D * SI)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SI)	0.00009	0.00010	0.00011
	(CKN * !D * SI)	0.00105	0.00162	0.00356
	(CKN * !D * !SI)	0.00088	0.00120	0.00228
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00002	0.00002	0.00002
	(CKN * !D * !SI)	-0.00020	0.00013	0.00120
	(!CKN * D * SI)	0.00098	0.00131	0.00238
	(!CKN * D * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * D * SI)	0.00001	0.00002	0.00002
	(!CKN * D * SI)	-0.00007	0.00025	0.00132
	(!CKN * D * !SI)	0.00139	0.00172	0.00282
	(!CKN * D * !SI)	0.00004	0.00005	0.00006
	(!CKN * D * !SI)	-0.00005	-0.00005	-0.00004
	(!CKN * D * !SI)	0.00072	0.00105	0.00217
	(!CKN * !D * SI)	0.00151	0.00209	0.00402
	(!CKN * !D * SI)	-0.00007	-0.00007	-0.00005
	(!CKN * !D * SI)	0.00007	0.00008	0.00008
	(!CKN * !D * SI)	0.00006	0.00063	0.00256
	(!CKN * !D * !SI)	0.00088	0.00120	0.00228
	(!CKN * !D * !SI)	-0.00002	-0.00001	-0.00000
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00020	0.00013	0.00120

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7L	**(CKN * D * SE)**	0.00138	0.00151	0.00196
	(CKN * D * SE)	0.00007	0.00007	0.00007
	(CKN * D * SE)	-0.00009	-0.00009	-0.00009
	(CKN * D * SE)	0.00213	0.00225	0.00271
	(CKN * D * !SE)	-0.00010	-0.00009	-0.00008
	(CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00023	0.00024	0.00024
	(CKN * !D * SE)	0.00138	0.00151	0.00196
	(CKN * !D * SE)	0.00006	0.00007	0.00007
	(CKN * !D * SE)	-0.00009	-0.00009	-0.00009
	(CKN * !D * SE)	0.00214	0.00226	0.00271
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00013
	(CKN * !D * !SE)	-0.00001	-0.00000	0.00000
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00020	0.00020	0.00021
	(!CKN * D * SE)	-0.00002	0.00009	0.00052
	(!CKN * D * SE)	0.00006	0.00007	0.00007
	(!CKN * D * SE)	-0.00008	-0.00008	-0.00008
	(!CKN * D * SE)	0.00078	0.00090	0.00133
	(!CKN * D * !SE)	-0.00010	-0.00009	-0.00008
	(!CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * D * !SE)	0.00000	0.00001	0.00001
	(!CKN * D * !SE)	0.00024	0.00024	0.00025
	(!CKN * !D * SE)	-0.00003	0.00009	0.00052
	(!CKN * !D * SE)	0.00007	0.00007	0.00007
	(!CKN * !D * SE)	-0.00008	-0.00008	-0.00008
	(!CKN * !D * SE)	0.00078	0.00090	0.00133
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00020	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

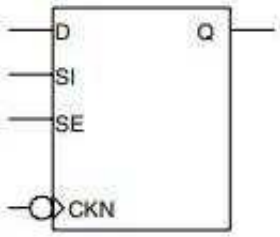
SDFFNQX2H7L	**(CKN * D * SE)**	0.00223	0.00237	0.00290
	(CKN * D * SE)	-0.00007	-0.00007	-0.00007
	(CKN * D * SE)	0.00009	0.00009	0.00010
	(CKN * D * SE)	0.00149	0.00163	0.00216
	(CKN * D * !SE)	0.00011	0.00011	0.00011
	(CKN * D * !SE)	0.00000	0.00000	0.00000
	(CKN * D * !SE)	-0.00001	-0.00000	-0.00000
	(CKN * D * !SE)	-0.00022	-0.00022	-0.00022
	(CKN * !D * SE)	0.00223	0.00238	0.00290
	(CKN * !D * SE)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SE)	0.00009	0.00009	0.00010
	(CKN * !D * SE)	0.00149	0.00163	0.00216
	(CKN * !D * !SE)	0.00014	0.00015	0.00016
	(CKN * !D * !SE)	0.00000	0.00000	0.00001
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00019	-0.00018	-0.00018
	(!CKN * D * SE)	0.00126	0.00138	0.00185
	(!CKN * D * SE)	-0.00007	-0.00007	-0.00006
	(!CKN * D * SE)	0.00008	0.00008	0.00009
	(!CKN * D * SE)	0.00045	0.00058	0.00105
	(!CKN * D * !SE)	0.00011	0.00011	0.00011
	(!CKN * D * !SE)	0.00000	0.00000	0.00000
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(!CKN * D * !SE)	-0.00022	-0.00022	-0.00022
	(!CKN * !D * SE)	0.00126	0.00138	0.00185
	(!CKN * !D * SE)	-0.00007	-0.00007	-0.00007
	(!CKN * !D * SE)	0.00008	0.00008	0.00009
	(!CKN * !D * SE)	0.00045	0.00058	0.00105
	(!CKN * !D * !SE)	0.00015	0.00015	0.00016
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00019	-0.00018	-0.00017

SDFFNQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX3H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX3H7L	0.00095	0.00061	0.00182	0.00067	0.12809

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX3H7L	0.00000	7.19405	11.00670

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7L	CKN->Q (FR)	(D * SE)	0.08168	0.24524	0.63218
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.08166	0.24524	0.63214
	CKN->Q (FR)	(!SE * !SI)	0.08166	0.24524	0.63216
	CKN->Q (FR)	(!D * SI)	0.08167	0.24524	0.63218

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7L	CKN->Q (FF)	(D * SE)	0.12779	0.25681	0.52990
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.12779	0.25681	0.52990
	CKN->Q (FF)	(!SE * !SI)	0.12781	0.25684	0.52991
	CKN->Q (FF)	(!D * SI)	0.12781	0.25683	0.52992

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	**hold**	**CKN (F)**	-0.05864	0.00797	0.09971
	setup	**CKN (F)**	-0.07745	0.01983	0.09409

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	**hold**	**CKN (F)**	-0.16759	-0.06144	0.02124
	setup	**CKN (F)**	-0.01025	0.07825	0.19720

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	**hold**	**CKN (F)**	-0.04946	0.01301	0.10198
	setup	**CKN (F)**	0.01888	0.07791	0.11550

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	**hold**	**CKN (F)**	-0.12991	-0.02230	0.08389
	setup	**CKN (F)**	-0.02452	0.06419	0.16999

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	hold	CKN (F)	-0.06325	0.00496	0.09785
	setup	CKN (F)	-0.07459	0.02357	0.09725

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7L	hold	CKN (F)	-0.19438	-0.08019	-0.00024
	setup	CKN (F)	0.00823	0.09958	0.22795

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7L	CKN	(D * SE)	0.00391	0.00428	0.00570
	CKN	(D * SE)	0.00001	0.00001	0.00001
	CKN	(D * SE)	-0.00001	-0.00000	-0.00000
	CKN	(D * SE)	0.00331	0.00367	0.00510
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00391	0.00428	0.00570
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00001	0.00001	0.00001
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00000	-0.00000	0.00001
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00331	0.00368	0.00510
	CKN	(!SE * !SI)	0.00391	0.00428	0.00570
	CKN	(!SE * !SI)	0.00001	0.00001	0.00001
	CKN	(!SE * !SI)	-0.00000	-0.00000	-0.00000
	CKN	(!SE * !SI)	0.00331	0.00368	0.00510
	CKN	(!D * SI)	0.00391	0.00428	0.00570
	CKN	(!D * SI)	0.00001	0.00001	0.00001
	CKN	(!D * SI)	-0.00001	-0.00000	-0.00000
	CKN	(!D * SI)	0.00331	0.00367	0.00510

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7L	CKN	(D * SE)	0.00461	0.00497	0.00621
	CKN	(D * SE)	-0.00001	0.00001	0.00003
	CKN	(D * SE)	0.00001	0.00003	0.00004
	CKN	(D * SE)	0.00398	0.00434	0.00558
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00461	0.00497	0.00621
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00001	0.00001	0.00003
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00001	0.00002	0.00003
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00398	0.00434	0.00558
	CKN	(!SE * !SI)	0.00461	0.00497	0.00621
	CKN	(!SE * !SI)	0.00001	0.00001	0.00001
	CKN	(!SE * !SI)	0.00001	0.00003	0.00005
	CKN	(!SE * !SI)	0.00398	0.00434	0.00558
	CKN	(!D * SI)	0.00461	0.00497	0.00622
	CKN	(!D * SI)	0.00001	0.00001	0.00001
	CKN	(!D * SI)	0.00001	0.00003	0.00005
	CKN	(!D * SI)	0.00398	0.00434	0.00558

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(D * SE * SI)**	0.00306	0.00334	0.00434
	(D * SE * SI)	-0.00000	0.00000	0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00368	0.00396	0.00496
	(D * SE * !SI)	0.00263	0.00290	0.00389
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	0.00001	0.00001	0.00002
	(D * SE * !SI)	0.00324	0.00352	0.00451
	(D * !SE * SI)	0.00307	0.00334	0.00434
	(D * !SE * SI)	-0.00000	-0.00000	-0.00000
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00367	0.00396	0.00495
	(D * !SE * !SI)	0.00307	0.00334	0.00434
	(D * !SE * !SI)	-0.00000	-0.00000	-0.00000
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00367	0.00396	0.00495
	(!D * SE * SI)	0.00306	0.00334	0.00434
	(!D * SE * SI)	-0.00000	0.00000	0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00368	0.00396	0.00496
	(!D * SE * !SI)	0.00263	0.00291	0.00389
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00324	0.00352	0.00451
	(!D * !SE * SI)	0.00263	0.00291	0.00389
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !SE * SI)	0.00324	0.00352	0.00451
	(!D * !SE * !SI)	0.00263	0.00290	0.00389
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00324	0.00352	0.00451

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(D * SE * SI)**	0.00206	0.00235	0.00334
	(D * SE * SI)	0.00000	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00146	0.00174	0.00274
	(D * SE * !SI)	0.00223	0.00251	0.00351
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00160	0.00188	0.00288
	(D * !SE * SI)	0.00207	0.00235	0.00335
	(D * !SE * SI)	0.00000	0.00001	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00146	0.00174	0.00274
	(D * !SE * !SI)	0.00207	0.00235	0.00335
	(D * !SE * !SI)	0.00000	0.00001	0.00001
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00146	0.00174	0.00274
	(!D * SE * SI)	0.00207	0.00235	0.00334
	(!D * SE * SI)	0.00000	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00146	0.00174	0.00274
	(!D * SE * !SI)	0.00223	0.00251	0.00351
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00001	0.00001	0.00002
	(!D * SE * !SI)	0.00160	0.00188	0.00288
	(!D * !SE * SI)	0.00223	0.00252	0.00351
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !SE * SI)	0.00161	0.00189	0.00288
	(!D * !SE * !SI)	0.00223	0.00251	0.00351
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !SE * !SI)	0.00161	0.00189	0.00288

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * SI)	0.00000	0.00001	0.00001
	(CKN * SE * SI)	0.00027	0.00027	0.00028
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00008
	(CKN * SE * !SI)	-0.00001	-0.00001	0.00000
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00027	0.00027	0.00027
	(CKN * !SE * SI)	0.00165	0.00180	0.00233
	(CKN * !SE * SI)	0.00007	0.00007	0.00008
	(CKN * !SE * SI)	-0.00010	-0.00009	-0.00009
	(CKN * !SE * SI)	0.00245	0.00259	0.00313
	(CKN * !SE * !SI)	0.00165	0.00180	0.00233
	(CKN * !SE * !SI)	0.00007	0.00007	0.00008
	(CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CKN * !SE * !SI)	0.00245	0.00260	0.00313
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	0.00027	0.00027	0.00029
	(!CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00027	0.00027	0.00028
	(!CKN * !SE * SI)	0.00026	0.00040	0.00092
	(!CKN * !SE * SI)	0.00007	0.00007	0.00008
	(!CKN * !SE * SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * SI)	0.00110	0.00124	0.00176
	(!CKN * !SE * !SI)	0.00026	0.00040	0.00092
	(!CKN * !SE * !SI)	0.00007	0.00007	0.00008
	(!CKN * !SE * !SI)	-0.00008	-0.00008	-0.00008
	(!CKN * !SE * !SI)	0.00110	0.00125	0.00177

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * SE * SI)**	0.00010	0.00010	0.00010
	(CKN * SE * SI)	0.00000	0.00000	0.00000
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * SI)	-0.00026	-0.00026	-0.00025
	(CKN * SE * !SI)	0.00010	0.00010	0.00011
	(CKN * SE * !SI)	0.00000	0.00001	0.00001
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(CKN * !SE * SI)	0.00197	0.00214	0.00276
	(CKN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * SI)	0.00009	0.00009	0.00010
	(CKN * !SE * SI)	0.00117	0.00134	0.00196
	(CKN * !SE * !SI)	0.00197	0.00214	0.00275
	(CKN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * !SE * !SI)	0.00009	0.00010	0.00010
	(CKN * !SE * !SI)	0.00117	0.00134	0.00196
	(!CKN * SE * SI)	0.00010	0.00010	0.00010
	(!CKN * SE * SI)	0.00000	0.00000	0.00000
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	-0.00026	-0.00025	-0.00025
	(!CKN * SE * !SI)	0.00010	0.00011	0.00011
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00025	-0.00025	-0.00023
	(!CKN * !SE * SI)	0.00097	0.00113	0.00170
	(!CKN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(!CKN * !SE * SI)	0.00008	0.00008	0.00009
	(!CKN * !SE * SI)	0.00012	0.00028	0.00086
	(!CKN * !SE * !SI)	0.00097	0.00113	0.00170
	(!CKN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(!CKN * !SE * !SI)	0.00008	0.00008	0.00009
	(!CKN * !SE * !SI)	0.00012	0.00028	0.00086

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * D * SI)**	-0.00009	0.00019	0.00117
	(CKN * D * SI)	0.00001	0.00001	0.00001
	(CKN * D * SI)	-0.00002	-0.00001	0.00001
	(CKN * D * SI)	0.00098	0.00127	0.00225
	(CKN * D * !SI)	0.00206	0.00233	0.00331
	(CKN * D * !SI)	-0.00006	-0.00004	-0.00004
	(CKN * D * !SI)	0.00006	0.00006	0.00007
	(CKN * D * !SI)	0.00280	0.00308	0.00406
	(CKN * !D * SI)	0.00126	0.00177	0.00353
	(CKN * !D * SI)	0.00006	0.00007	0.00008
	(CKN * !D * SI)	-0.00010	-0.00009	-0.00008
	(CKN * !D * SI)	0.00267	0.00319	0.00496
	(CKN * !D * !SI)	-0.00005	0.00024	0.00123
	(CKN * !D * !SI)	0.00000	0.00001	0.00002
	(CKN * !D * !SI)	-0.00002	-0.00002	0.00000
	(CKN * !D * !SI)	0.00103	0.00133	0.00232
	(!CKN * D * SI)	-0.00010	0.00019	0.00117
	(!CKN * D * SI)	0.00001	0.00001	0.00001
	(!CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(!CKN * D * SI)	0.00099	0.00127	0.00225
	(!CKN * D * !SI)	0.00103	0.00131	0.00229
	(!CKN * D * !SI)	-0.00004	-0.00004	-0.00002
	(!CKN * D * !SI)	0.00004	0.00005	0.00006
	(!CKN * D * !SI)	0.00173	0.00201	0.00296
	(!CKN * !D * SI)	-0.00015	0.00037	0.00215
	(!CKN * !D * SI)	0.00006	0.00007	0.00008
	(!CKN * !D * SI)	-0.00008	-0.00008	-0.00007
	(!CKN * !D * SI)	0.00132	0.00185	0.00362
	(!CKN * !D * !SI)	-0.00005	0.00025	0.00123
	(!CKN * !D * !SI)	-0.00000	0.00001	0.00002
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00103	0.00134	0.00232

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * D * SI)**	0.00096	0.00128	0.00236
	(CKN * D * SI)	-0.00001	-0.00001	-0.00001
	(CKN * D * SI)	0.00001	0.00002	0.00003
	(CKN * D * SI)	-0.00014	0.00019	0.00128
	(CKN * D * !SI)	0.00272	0.00306	0.00419
	(CKN * D * !SI)	0.00004	0.00004	0.00006
	(CKN * D * !SI)	-0.00006	-0.00006	-0.00005
	(CKN * D * !SI)	0.00197	0.00231	0.00346
	(CKN * !D * SI)	0.00249	0.00307	0.00500
	(CKN * !D * SI)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SI)	0.00009	0.00009	0.00010
	(CKN * !D * SI)	0.00107	0.00164	0.00358
	(CKN * !D * !SI)	0.00088	0.00121	0.00229
	(CKN * !D * !SI)	-0.00002	-0.00001	0.00000
	(CKN * !D * !SI)	0.00000	0.00002	0.00002
	(CKN * !D * !SI)	-0.00021	0.00012	0.00120
	(!CKN * D * SI)	0.00095	0.00128	0.00236
	(!CKN * D * SI)	-0.00001	-0.00001	0.00001
	(!CKN * D * SI)	0.00001	0.00002	0.00002
	(!CKN * D * SI)	-0.00013	0.00020	0.00128
	(!CKN * D * !SI)	0.00134	0.00169	0.00280
	(!CKN * D * !SI)	0.00002	0.00004	0.00005
	(!CKN * D * !SI)	-0.00005	-0.00004	-0.00001
	(!CKN * D * !SI)	0.00063	0.00099	0.00213
	(!CKN * !D * SI)	0.00148	0.00207	0.00400
	(!CKN * !D * SI)	-0.00008	-0.00007	-0.00006
	(!CKN * !D * SI)	0.00007	0.00008	0.00008
	(!CKN * !D * SI)	0.00002	0.00060	0.00253
	(!CKN * !D * !SI)	0.00088	0.00121	0.00229
	(!CKN * !D * !SI)	-0.00002	-0.00001	0.00001
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00020	0.00012	0.00120

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * D * SE)**	0.00138	0.00150	0.00197
	(CKN * D * SE)	0.00007	0.00007	0.00007
	(CKN * D * SE)	-0.00009	-0.00009	-0.00008
	(CKN * D * SE)	0.00212	0.00225	0.00271
	(CKN * D * !SE)	-0.00012	-0.00012	-0.00011
	(CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00021	0.00021	0.00022
	(CKN * !D * SE)	0.00137	0.00150	0.00197
	(CKN * !D * SE)	0.00006	0.00007	0.00007
	(CKN * !D * SE)	-0.00009	-0.00009	-0.00008
	(CKN * !D * SE)	0.00213	0.00225	0.00271
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00020	0.00020	0.00020
	(!CKN * D * SE)	-0.00002	0.00010	0.00054
	(!CKN * D * SE)	0.00006	0.00007	0.00007
	(!CKN * D * SE)	-0.00008	-0.00008	-0.00007
	(!CKN * D * SE)	0.00077	0.00089	0.00133
	(!CKN * D * !SE)	-0.00012	-0.00011	-0.00011
	(!CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * D * !SE)	0.00000	0.00001	0.00001
	(!CKN * D * !SE)	0.00021	0.00021	0.00022
	(!CKN * !D * SE)	-0.00002	0.00010	0.00054
	(!CKN * !D * SE)	0.00006	0.00007	0.00007
	(!CKN * !D * SE)	-0.00008	-0.00008	-0.00007
	(!CKN * !D * SE)	0.00077	0.00089	0.00133
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00020	0.00020	0.00020

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7L	**(CKN * D * SE)**	0.00224	0.00238	0.00291
	(CKN * D * SE)	-0.00007	-0.00007	-0.00007
	(CKN * D * SE)	0.00008	0.00009	0.00009
	(CKN * D * SE)	0.00149	0.00164	0.00218
	(CKN * D * !SE)	0.00013	0.00013	0.00013
	(CKN * D * !SE)	0.00000	0.00000	0.00000
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00020	-0.00019	-0.00019
	(CKN * !D * SE)	0.00224	0.00238	0.00291
	(CKN * !D * SE)	-0.00007	-0.00007	-0.00006
	(CKN * !D * SE)	0.00008	0.00009	0.00009
	(CKN * !D * SE)	0.00149	0.00164	0.00218
	(CKN * !D * !SE)	0.00014	0.00015	0.00016
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00018	-0.00018	-0.00017
	(!CKN * D * SE)	0.00120	0.00133	0.00180
	(!CKN * D * SE)	-0.00007	-0.00007	-0.00006
	(!CKN * D * SE)	0.00007	0.00008	0.00008
	(!CKN * D * SE)	0.00040	0.00053	0.00101
	(!CKN * D * !SE)	0.00013	0.00013	0.00013
	(!CKN * D * !SE)	0.00000	0.00000	0.00000
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(!CKN * D * !SE)	-0.00019	-0.00019	-0.00019
	(!CKN * !D * SE)	0.00120	0.00133	0.00180
	(!CKN * !D * SE)	-0.00007	-0.00007	-0.00006
	(!CKN * !D * SE)	0.00007	0.00008	0.00008
	(!CKN * !D * SE)	0.00040	0.00053	0.00101
	(!CKN * !D * !SE)	0.00015	0.00015	0.00016
	(!CKN * !D * !SE)	0.00000	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00018	-0.00018	-0.00017

SDFFNRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI) !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX0P5H7L	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX0P5H7L	0.00088	0.00077	0.00091	0.00188	0.00085	0.06354	0.06329

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX0P5H7L	0.00000	8.30182	11.21580

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7L	CKN->Q (FR)	(RN * SE)	0.12392	0.27515	0.64923
	CKN->Q (FR)	(RN * !SE)	0.12392	0.27515	0.64922

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7L	CKN->Q (FF)	(RN * SE)	0.09125	0.20971	0.48967
	CKN->Q (FF)	(RN * !SE)	0.09127	0.20974	0.48964
	RN->Q (FF)	(CKN * D * SE * SI)	0.06765	0.17749	0.44083
	RN->Q (FF)	(CKN * D * SE * !SI)	0.06718	0.17652	0.43870
	RN->Q (FF)	(CKN * D * !SE * SI)	0.06765	0.17749	0.44083
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.06765	0.17749	0.44083
	RN->Q (FF)	(CKN * !D * SE * SI)	0.06765	0.17749	0.44083
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.06718	0.17652	0.43870
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.06718	0.17651	0.43870
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.06718	0.17651	0.43870
	RN->Q (FF)	(!CKN * D * SE * SI)	0.07362	0.18410	0.44923
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.07362	0.18410	0.44925
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.07362	0.18410	0.44923
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.07362	0.18410	0.44923
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.07362	0.18410	0.44923
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.07362	0.18410	0.44925
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.07362	0.18410	0.44924
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.07362	0.18410	0.44924

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7L	CKN->QN (FR)	(RN * SE)	0.06852	0.22561	0.60280
	CKN->QN (FR)	(RN * !SE)	0.06854	0.22565	0.60280
	RN->QN (FR)	(CKN * D * SE * SI)	0.04697	0.19114	0.54902
	RN->QN (FR)	(CKN * D * SE * !SI)	0.04664	0.19024	0.54661
	RN->QN (FR)	(CKN * D * !SE * SI)	0.04697	0.19114	0.54902
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.04697	0.19114	0.54902
	RN->QN (FR)	(CKN * !D * SE * SI)	0.04697	0.19114	0.54902
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.04664	0.19023	0.54661
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.04664	0.19024	0.54661
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.04664	0.19023	0.54656
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05089	0.19892	0.55985
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05089	0.19892	0.55985

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7L	CKN->QN (FF)	(RN * SE)	0.09588	0.23368	0.52577
	CKN->QN (FF)	(RN * !SE)	0.09588	0.23367	0.52573

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	**hold**	**CKN (F)**	-0.01941	0.02877	0.11549
	setup	**CKN (F)**	-0.07983	0.02090	0.09357

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	**hold**	**CKN (F)**	-0.12935	-0.03704	0.02884
	setup	**CKN (F)**	0.00404	0.09105	0.21688

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	**recovery**	**CKN (F)**	-0.11089	-0.01542	0.03889
	removal	**CKN (F)**	0.03776	0.08051	0.15876

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX0P5H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	hold	CKN (F)	-0.01116	0.03258	0.11568
	setup	CKN (F)	0.01398	0.07150	0.10655

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	hold	CKN (F)	-0.09333	0.00011	0.09997
	setup	CKN (F)	-0.00459	0.08155	0.20334

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	hold	CKN (F)	-0.02448	0.02248	0.10810
	setup	CKN (F)	-0.07057	0.02939	0.10726

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7L	hold	CKN (F)	-0.12957	-0.04095	0.02280
	setup	CKN (F)	0.00926	0.09754	0.22321

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7L	CKN	(RN * SE)	0.00262	0.00282	0.00352
	CKN	(RN * SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * SE)	0.00002	0.00002	0.00004
	CKN	(RN * SE)	0.00229	0.00250	0.00320
	CKN	(RN * !SE)	0.00262	0.00282	0.00352
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * !SE)	0.00000	0.00002	0.00003
	CKN	(RN * !SE)	0.00230	0.00250	0.00320

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00226	0.00248	0.00316
	CKN	**(RN * SE)**	-0.00001	0.00001	0.00002
	CKN	**(RN * SE)**	-0.00003	-0.00002	-0.00001
	CKN	**(RN * SE)**	0.00197	0.00219	0.00289
	CKN	**(RN * !SE)**	0.00226	0.00248	0.00316
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * !SE)**	-0.00003	-0.00002	0.00000
	CKN	**(RN * !SE)**	0.00199	0.00220	0.00288
	RN	**(CKN * D * SE * SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * D * SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * D * SE * SI)**	0.00144	0.00165	0.00232
	RN	**(CKN * D * SE * !SI)**	0.00172	0.00192	0.00258
	RN	**(CKN * D * SE * !SI)**	0.00001	0.00001	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * D * SE * !SI)**	0.00143	0.00163	0.00229
	RN	**(CKN * D * !SE * SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * SI)**	-0.00009	-0.00003	-0.00001
	RN	**(CKN * D * !SE * SI)**	0.00143	0.00165	0.00236
	RN	**(CKN * D * !SE * !SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * !SI)**	-0.00009	-0.00003	-0.00001
	RN	**(CKN * D * !SE * !SI)**	0.00143	0.00165	0.00236
	RN	**(CKN * !D * SE * SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * !D * SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * !D * SE * SI)**	0.00144	0.00165	0.00232
	RN	**(CKN * !D * SE * !SI)**	0.00172	0.00192	0.00258
	RN	**(CKN * !D * SE * !SI)**	0.00001	0.00001	0.00002
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * !D * SE * !SI)**	0.00143	0.00163	0.00229
	RN	**(CKN * !D * !SE * SI)**	0.00171	0.00192	0.00259
	RN	**(CKN * !D * !SE * SI)**	0.00001	0.00001	0.00003
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00002	-0.00000
	RN	**(CKN * !D * !SE * SI)**	0.00143	0.00163	0.00230
SDFFNRX0P5H7L	**RN**	**(CKN * !D * !SE * !SI)**	0.00171	0.00192	0.00259
	RN	**(CKN * !D * !SE * !SI)**	0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00003	-0.00002	-0.00000
	RN	**(CKN * !D * !SE * !SI)**	0.00143	0.00163	0.00230
	RN	**(!CKN * D * SE * SI)**	0.00237	0.00257	0.00322
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00000	0.00000
	RN	**(!CKN * D * SE * SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * D * SE * !SI)**	0.00233	0.00254	0.00318
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00200	0.00221	0.00286
	RN	**(!CKN * D * !SE * SI)**	0.00236	0.00257	0.00322
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00000	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * D * !SE * !SI)**	0.00236	0.00257	0.00322
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00000	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * !D * SE * SI)**	0.00237	0.00257	0.00322
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00000	0.00000
	RN	**(!CKN * !D * SE * SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * !D * SE * !SI)**	0.00233	0.00254	0.00318
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00200	0.00221	0.00286
	RN	**(!CKN * !D * !SE * SI)**	0.00233	0.00254	0.00318
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00000	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00201	0.00221	0.00286
	RN	**(!CKN * !D * !SE * !SI)**	0.00233	0.00254	0.00318
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00000	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00201	0.00221	0.00286

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00227	0.00248	0.00316
	CKN	**(RN * SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * SE)**	-0.00002	-0.00002	-0.00000
	CKN	**(RN * SE)**	0.00199	0.00220	0.00290
	CKN	**(RN * !SE)**	0.00227	0.00248	0.00317
	CKN	**(RN * !SE)**	0.00001	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00002	-0.00002	-0.00000
	CKN	**(RN * !SE)**	0.00199	0.00220	0.00290
	RN	**(CKN * D * SE * SI)**	0.00171	0.00193	0.00261
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00002	0.00002
	RN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * D * SE * SI)**	0.00142	0.00165	0.00235
	RN	**(CKN * D * SE * !SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * D * SE * !SI)**	-0.00002	0.00001	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00144	0.00164	0.00232
	RN	**(CKN * D * !SE * SI)**	0.00173	0.00194	0.00261
	RN	**(CKN * D * !SE * SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00003	0.00000
	RN	**(CKN * D * !SE * SI)**	0.00143	0.00165	0.00235
	RN	**(CKN * D * !SE * !SI)**	0.00172	0.00194	0.00261
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00002	0.00004
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(CKN * D * !SE * !SI)**	0.00143	0.00165	0.00235
	RN	**(CKN * !D * SE * SI)**	0.00174	0.00194	0.00261
	RN	**(CKN * !D * SE * SI)**	-0.00001	0.00002	0.00002
	RN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * !D * SE * SI)**	0.00144	0.00165	0.00235
	RN	**(CKN * !D * SE * !SI)**	0.00173	0.00193	0.00259
	RN	**(CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00002
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * !D * SE * !SI)**	0.00143	0.00164	0.00232
	RN	**(CKN * !D * !SE * SI)**	0.00171	0.00193	0.00258
	RN	**(CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	-0.00002
SDFFNRX0P5H7L	**RN**	**(CKN * !D * !SE * SI)**	0.00144	0.00164	0.00231
	RN	**(CKN * !D * !SE * !SI)**	0.00171	0.00193	0.00258
	RN	**(CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * !SI)**	0.00143	0.00164	0.00230
	RN	**(!CKN * D * SE * SI)**	0.00236	0.00257	0.00322
	RN	**(!CKN * D * SE * SI)**	-0.00003	0.00000	0.00003
	RN	**(!CKN * D * SE * SI)**	-0.00003	0.00000	0.00002
	RN	**(!CKN * D * SE * SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * D * SE * !SI)**	0.00234	0.00254	0.00319
	RN	**(!CKN * D * SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00000	0.00004
	RN	**(!CKN * D * SE * !SI)**	0.00200	0.00221	0.00288
	RN	**(!CKN * D * !SE * SI)**	0.00236	0.00257	0.00322
	RN	**(!CKN * D * !SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00006	-0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	0.00204	0.00225	0.00293
	RN	**(!CKN * D * !SE * !SI)**	0.00237	0.00258	0.00322
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	0.00000	0.00005
	RN	**(!CKN * D * !SE * !SI)**	-0.00006	0.00000	0.00004
	RN	**(!CKN * D * !SE * !SI)**	0.00203	0.00225	0.00293
	RN	**(!CKN * !D * SE * SI)**	0.00236	0.00257	0.00322
	RN	**(!CKN * !D * SE * SI)**	-0.00003	0.00000	0.00003
	RN	**(!CKN * !D * SE * SI)**	-0.00003	0.00000	0.00002
	RN	**(!CKN * !D * SE * SI)**	0.00205	0.00225	0.00291
	RN	**(!CKN * !D * SE * !SI)**	0.00233	0.00254	0.00319
	RN	**(!CKN * !D * SE * !SI)**	-0.00003	0.00000	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00000	0.00004
	RN	**(!CKN * !D * SE * !SI)**	0.00199	0.00221	0.00288
	RN	**(!CKN * !D * !SE * SI)**	0.00234	0.00254	0.00319
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00000	0.00003
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * !D * !SE * SI)**	0.00200	0.00221	0.00288
	RN	**(!CKN * !D * !SE * !SI)**	0.00234	0.00254	0.00319
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00000	0.00003
	RN	**(!CKN * !D * !SE * !SI)**	0.00000	0.00000	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	0.00200	0.00221	0.00288

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7L	CKN	(RN * SE)	0.00261	0.00282	0.00352
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00000	0.00002	0.00002
	CKN	(RN * SE)	0.00229	0.00250	0.00319
	CKN	(RN * !SE)	0.00261	0.00282	0.00352
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * !SE)	0.00000	0.00002	0.00003
	CKN	(RN * !SE)	0.00229	0.00250	0.00320

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00281	0.00315	0.00434
	-0.00000	-0.00000	0.00000
	-0.00004	-0.00003	-0.00001
	0.00343	0.00378	0.00497

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00371	0.00404	0.00522
	0.00000	0.00000	0.00001
	0.00003	0.00003	0.00004
	0.00307	0.00340	0.00458

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00139	0.00157	0.00223
	0.00008	0.00009	0.00010
	-0.00011	-0.00011	-0.00010
	0.00240	0.00257	0.00322

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00237	0.00257	0.00332
	-0.00010	-0.00009	-0.00008
	0.00010	0.00011	0.00011
	0.00136	0.00156	0.00232

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00096	0.00131	0.00245
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00153	0.00187	0.00301

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00084	0.00121	0.00246
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00016	0.00053	0.00178

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00107	0.00167	0.00373
	0.00008	0.00009	0.00009
	-0.00010	-0.00010	-0.00008
	0.00271	0.00333	0.00539

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00293	0.00361	0.00588
	-0.00009	-0.00008	-0.00008
	0.00008	0.00010	0.00011
	0.00128	0.00195	0.00422

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00118	0.00134	0.00193
	0.00008	0.00009	0.00010
	-0.00010	-0.00010	-0.00010
	0.00222	0.00237	0.00295

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7L	0.00256	0.00274	0.00340
	-0.00010	-0.00009	-0.00008
	0.00010	0.00010	0.00010
	0.00153	0.00171	0.00239

SDFFNRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ?(SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX1H7L	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX1H7L	0.00087	0.00078	0.00092	0.00184	0.00086	0.07549	0.07488

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX1H7L	0.00000	8.52915	11.47500

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7L	CKN->Q (FR)	(RN * SE)	0.12491	0.27683	0.65296
	CKN->Q (FR)	(RN * !SE)	0.12491	0.27682	0.65288

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7L	CKN->Q (FF)	(RN * SE)	0.08932	0.20880	0.49033
	CKN->Q (FF)	(RN * !SE)	0.08940	0.20881	0.49033
	RN->Q (FF)	(CKN * D * SE * SI)	0.06804	0.17875	0.44374
	RN->Q (FF)	(CKN * D * SE * !SI)	0.06755	0.17776	0.44150
	RN->Q (FF)	(CKN * D * !SE * SI)	0.06804	0.17875	0.44374
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.06804	0.17875	0.44374
	RN->Q (FF)	(CKN * !D * SE * SI)	0.06804	0.17875	0.44374
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.06755	0.17776	0.44150
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.06755	0.17776	0.44150
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.06755	0.17776	0.44150
	RN->Q (FF)	(!CKN * D * SE * SI)	0.07453	0.18593	0.45262
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.07454	0.18593	0.45263
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.07453	0.18593	0.45261
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.07453	0.18593	0.45261
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.07453	0.18593	0.45262
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.07454	0.18593	0.45263
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.07454	0.18593	0.45263
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.07454	0.18593	0.45263

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7L	CKN->QN (FR)	(RN * SE)	0.06540	0.22238	0.59910
	CKN->QN (FR)	(RN * !SE)	0.06548	0.22240	0.59910
	RN->QN (FR)	(CKN * D * SE * SI)	0.04601	0.19049	0.54748
	RN->QN (FR)	(CKN * D * SE * !SI)	0.04571	0.18958	0.54614
	RN->QN (FR)	(CKN * D * !SE * SI)	0.04602	0.19049	0.54767
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.04602	0.19049	0.54767
	RN->QN (FR)	(CKN * !D * SE * SI)	0.04601	0.19049	0.54758
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.04571	0.18958	0.54614
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.04571	0.18958	0.54614
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.04571	0.18958	0.54614
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05017	0.19871	0.55916
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05017	0.19871	0.55916
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05017	0.19870	0.55916
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05017	0.19870	0.55916
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05017	0.19871	0.55916
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05017	0.19871	0.55916
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05017	0.19871	0.55916
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05017	0.19871	0.55916

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7L	CKN->QN (FF)	(RN * SE)	0.09511	0.23433	0.52771
	CKN->QN (FF)	(RN * !SE)	0.09511	0.23432	0.52769

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	**hold**	**CKN (F)**	-0.02148	0.02885	0.11642
	setup	**CKN (F)**	-0.07888	0.02233	0.09702

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	**hold**	**CKN (F)**	-0.12253	-0.03423	0.02763
	setup	**CKN (F)**	0.00442	0.09030	0.21404

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	**recovery**	**CKN (F)**	-0.11275	-0.01400	0.03949
	removal	**CKN (F)**	0.03775	0.07922	0.15820

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX1H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	hold	CKN (F)	-0.01304	0.03268	0.11928
	setup	CKN (F)	0.01664	0.07103	0.10690

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	hold	CKN (F)	-0.08968	0.00104	0.10352
	setup	CKN (F)	-0.00539	0.07949	0.20339

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	hold	CKN (F)	-0.02877	0.02252	0.11123
	setup	CKN (F)	-0.06962	0.03097	0.10901

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7L	hold	CKN (F)	-0.12649	-0.03852	0.02365
	setup	CKN (F)	0.00841	0.09674	0.22034

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7L	CKN	(RN * SE)	0.00272	0.00293	0.00364
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00002	0.00002	0.00004
	CKN	(RN * SE)	0.00240	0.00261	0.00331
	CKN	(RN * !SE)	0.00272	0.00293	0.00364
	CKN	(RN * !SE)	-0.00001	-0.00001	-0.00000
	CKN	(RN * !SE)	0.00000	0.00002	0.00004
	CKN	(RN * !SE)	0.00240	0.00261	0.00331

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00232	0.00253	0.00322
	CKN	**(RN * SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00003	-0.00002	-0.00002
	CKN	**(RN * SE)**	0.00204	0.00226	0.00295
	CKN	**(RN * !SE)**	0.00231	0.00253	0.00322
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * !SE)**	-0.00003	-0.00002	-0.00000
	CKN	**(RN * !SE)**	0.00204	0.00226	0.00294
	RN	**(CKN * D * SE * SI)**	0.00179	0.00199	0.00266
	RN	**(CKN * D * SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * D * SE * SI)**	0.00150	0.00171	0.00238
	RN	**(CKN * D * SE * !SI)**	0.00177	0.00198	0.00265
	RN	**(CKN * D * SE * !SI)**	-0.00000	0.00001	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * D * SE * !SI)**	0.00148	0.00169	0.00236
	RN	**(CKN * D * !SE * SI)**	0.00179	0.00199	0.00266
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * SI)**	-0.00005	-0.00003	-0.00002
	RN	**(CKN * D * !SE * SI)**	0.00150	0.00171	0.00238
	RN	**(CKN * D * !SE * !SI)**	0.00179	0.00199	0.00266
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00003	-0.00003
	RN	**(CKN * D * !SE * !SI)**	0.00150	0.00171	0.00238
	RN	**(CKN * !D * SE * SI)**	0.00179	0.00199	0.00266
	RN	**(CKN * !D * SE * SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * !D * SE * SI)**	0.00150	0.00171	0.00238
	RN	**(CKN * !D * SE * !SI)**	0.00177	0.00198	0.00265
	RN	**(CKN * !D * SE * !SI)**	-0.00000	0.00001	0.00002
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * !D * SE * !SI)**	0.00148	0.00169	0.00236
	RN	**(CKN * !D * !SE * SI)**	0.00178	0.00198	0.00264
	RN	**(CKN * !D * !SE * SI)**	0.00000	0.00001	0.00002
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	-0.00000
SDFFNRX1H7L	**RN**	**(CKN * !D * !SE * SI)**	0.00148	0.00169	0.00235
	RN	**(CKN * !D * !SE * !SI)**	0.00178	0.00198	0.00264
	RN	**(CKN * !D * !SE * !SI)**	0.00000	0.00001	0.00002
	RN	**(CKN * !D * !SE * !SI)**	-0.00003	-0.00003	-0.00000
	RN	**(CKN * !D * !SE * !SI)**	0.00148	0.00169	0.00235
	RN	**(!CKN * D * SE * SI)**	0.00243	0.00263	0.00327
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * D * SE * SI)**	0.00211	0.00230	0.00297
	RN	**(!CKN * D * SE * !SI)**	0.00240	0.00260	0.00324
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * D * SE * !SI)**	0.00208	0.00227	0.00291
	RN	**(!CKN * D * !SE * SI)**	0.00242	0.00263	0.00327
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * D * !SE * SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00209	0.00230	0.00295
	RN	**(!CKN * D * !SE * !SI)**	0.00244	0.00263	0.00327
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00211	0.00230	0.00295
	RN	**(!CKN * !D * SE * SI)**	0.00243	0.00263	0.00327
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * !D * SE * SI)**	0.00211	0.00230	0.00297
	RN	**(!CKN * !D * SE * !SI)**	0.00240	0.00259	0.00324
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * !D * SE * !SI)**	0.00208	0.00227	0.00291
	RN	**(!CKN * !D * !SE * SI)**	0.00240	0.00260	0.00324
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00208	0.00227	0.00291
	RN	**(!CKN * !D * !SE * !SI)**	0.00240	0.00260	0.00324
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00208	0.00227	0.00291

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00230	0.00254	0.00323
	CKN	**(RN * SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * SE)**	-0.00002	-0.00002	0.00001
	CKN	**(RN * SE)**	0.00202	0.00226	0.00297
	CKN	**(RN * !SE)**	0.00230	0.00253	0.00322
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * !SE)**	-0.00002	-0.00002	-0.00001
	CKN	**(RN * !SE)**	0.00202	0.00226	0.00296
	RN	**(CKN * D * SE * SI)**	0.00180	0.00200	0.00267
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00002	0.00002
	RN	**(CKN * D * SE * SI)**	-0.00007	-0.00003	0.00001
	RN	**(CKN * D * SE * SI)**	0.00148	0.00171	0.00241
	RN	**(CKN * D * SE * !SI)**	0.00176	0.00199	0.00266
	RN	**(CKN * D * SE * !SI)**	-0.00002	0.00002	0.00005
	RN	**(CKN * D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00150	0.00170	0.00238
	RN	**(CKN * D * !SE * SI)**	0.00178	0.00200	0.00266
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00002	0.00003
	RN	**(CKN * D * !SE * SI)**	-0.00007	-0.00003	0.00001
	RN	**(CKN * D * !SE * SI)**	0.00148	0.00172	0.00239
	RN	**(CKN * D * !SE * !SI)**	0.00178	0.00200	0.00266
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00002	0.00003
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	0.00001
	RN	**(CKN * D * !SE * !SI)**	0.00148	0.00171	0.00239
	RN	**(CKN * !D * SE * SI)**	0.00178	0.00200	0.00267
	RN	**(CKN * !D * SE * SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * !D * SE * SI)**	-0.00007	-0.00003	0.00001
	RN	**(CKN * !D * SE * SI)**	0.00149	0.00172	0.00241
	RN	**(CKN * !D * SE * !SI)**	0.00175	0.00198	0.00266
	RN	**(CKN * !D * SE * !SI)**	0.00000	0.00002	0.00005
	RN	**(CKN * !D * SE * !SI)**	-0.00004	-0.00003	-0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00148	0.00170	0.00239
	RN	**(CKN * !D * !SE * SI)**	0.00177	0.00199	0.00266
	RN	**(CKN * !D * !SE * SI)**	-0.00002	0.00002	0.00005
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * !D * !SE * SI)**	0.00149	0.00170	0.00239
SDFFNRX1H7L	**RN**	**(CKN * !D * !SE * !SI)**	0.00178	0.00199	0.00266
	RN	**(CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00002
	RN	**(CKN * !D * !SE * !SI)**	-0.00003	-0.00003	-0.00001
	RN	**(CKN * !D * !SE * !SI)**	0.00149	0.00170	0.00239
	RN	**(!CKN * D * SE * SI)**	0.00241	0.00263	0.00327
	RN	**(!CKN * D * SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00211	0.00230	0.00295
	RN	**(!CKN * D * SE * !SI)**	0.00238	0.00260	0.00325
	RN	**(!CKN * D * SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00000	0.00000
	RN	**(!CKN * D * SE * !SI)**	0.00207	0.00227	0.00293
	RN	**(!CKN * D * !SE * SI)**	0.00238	0.00263	0.00327
	RN	**(!CKN * D * !SE * SI)**	-0.00003	0.00001	0.00008
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00210	0.00230	0.00295
	RN	**(!CKN * D * !SE * !SI)**	0.00241	0.00263	0.00328
	RN	**(!CKN * D * !SE * !SI)**	-0.00007	0.00000	0.00004
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00209	0.00230	0.00296
	RN	**(!CKN * !D * SE * SI)**	0.00241	0.00263	0.00327
	RN	**(!CKN * !D * SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00211	0.00230	0.00295
	RN	**(!CKN * !D * SE * !SI)**	0.00238	0.00260	0.00324
	RN	**(!CKN * !D * SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00205	0.00227	0.00293
	RN	**(!CKN * !D * !SE * SI)**	0.00238	0.00260	0.00324
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00000	-0.00000	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00207	0.00227	0.00291
	RN	**(!CKN * !D * !SE * !SI)**	0.00238	0.00260	0.00324
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00000	-0.00000	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00207	0.00227	0.00292

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7L	CKN	(RN * SE)	0.00272	0.00293	0.00363
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00000	0.00002	0.00002
	CKN	(RN * SE)	0.00239	0.00261	0.00332
	CKN	(RN * !SE)	0.00272	0.00293	0.00363
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * !SE)	0.00001	0.00002	0.00003
	CKN	(RN * !SE)	0.00240	0.00261	0.00332

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00286	0.00320	0.00438
	-0.00001	-0.00000	0.00000
	-0.00004	-0.00002	-0.00001
	0.00348	0.00381	0.00500

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00372	0.00405	0.00523
	0.00000	0.00000	0.00002
	0.00001	0.00003	0.00004
	0.00309	0.00343	0.00461

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00140	0.00158	0.00224
	0.00009	0.00009	0.00010
	-0.00011	-0.00011	-0.00010
	0.00238	0.00256	0.00322

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00242	0.00263	0.00339
	-0.00010	-0.00009	-0.00009
	0.00010	0.00011	0.00011
	0.00143	0.00164	0.00240

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00098	0.00132	0.00246
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00154	0.00188	0.00302

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00084	0.00121	0.00246
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00015	0.00052	0.00177

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00108	0.00168	0.00375
	0.00008	0.00008	0.00009
	-0.00010	-0.00009	-0.00008
	0.00269	0.00330	0.00538

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00297	0.00365	0.00594
	-0.00009	-0.00008	-0.00007
	0.00008	0.00009	0.00010
	0.00135	0.00203	0.00431

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00118	0.00134	0.00193
	0.00008	0.00008	0.00009
	-0.00010	-0.00010	-0.00009
	0.00220	0.00235	0.00293

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7L	0.00262	0.00281	0.00348
	-0.00009	-0.00008	-0.00008
	0.00010	0.00010	0.00011
	0.00162	0.00180	0.00248

SDFFNRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ?(SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX2H7L	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX2H7L	0.00086	0.00078	0.00088	0.00185	0.00085	0.08652	0.08642

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX2H7L	0.00000	8.87239	11.85720

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7L	CKN->Q (FR)	(RN * SE)	0.12437	0.27546	0.65036
	CKN->Q (FR)	(RN * !SE)	0.12437	0.27547	0.65026

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7L	CKN->Q (FF)	(RN * SE)	0.08910	0.20838	0.49023
	CKN->Q (FF)	(RN * !SE)	0.08912	0.20841	0.49023
	RN->Q (FF)	(CKN * D * SE * SI)	0.06674	0.17746	0.44251
	RN->Q (FF)	(CKN * D * SE * !SI)	0.06631	0.17661	0.44070
	RN->Q (FF)	(CKN * D * !SE * SI)	0.06674	0.17746	0.44250
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.06674	0.17746	0.44250
	RN->Q (FF)	(CKN * !D * SE * SI)	0.06674	0.17746	0.44251
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.06631	0.17661	0.44070
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.06631	0.17661	0.44070
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.06631	0.17661	0.44070
	RN->Q (FF)	(!CKN * D * SE * SI)	0.07274	0.18403	0.45073
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.07274	0.18404	0.45073
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.07274	0.18404	0.45073

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7L	CKN->QN (FR)	(RN * SE)	0.06677	0.22488	0.60374
	CKN->QN (FR)	(RN * !SE)	0.06680	0.22489	0.60372
	RN->QN (FR)	(CKN * D * SE * SI)	0.04664	0.19225	0.55071
	RN->QN (FR)	(CKN * D * SE * !SI)	0.04638	0.19149	0.54973
	RN->QN (FR)	(CKN * D * !SE * SI)	0.04664	0.19224	0.55071
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.04664	0.19225	0.55071
	RN->QN (FR)	(CKN * !D * SE * SI)	0.04664	0.19224	0.55071
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.04638	0.19148	0.54922
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.04638	0.19147	0.54887
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.04638	0.19148	0.54887
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05064	0.19983	0.56128
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05064	0.19983	0.56129
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05064	0.19983	0.56128
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05064	0.19983	0.56128
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05064	0.19983	0.56128
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05064	0.19983	0.56129
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05064	0.19983	0.56129
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05064	0.19983	0.56129

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7L	CKN->QN (FF)	(RN * SE)	0.09581	0.23514	0.52981
	CKN->QN (FF)	(RN * !SE)	0.09581	0.23514	0.52981

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	**hold**	**CKN (F)**	-0.01807	0.03093	0.11887
	setup	**CKN (F)**	-0.08778	0.01521	0.08944

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	**hold**	**CKN (F)**	-0.12044	-0.03219	0.03080
	setup	**CKN (F)**	-0.00288	0.08899	0.21586

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	**recovery**	**CKN (F)**	-0.12128	-0.02161	0.03379
	removal	**CKN (F)**	0.03416	0.07788	0.15686

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX2H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	hold	CKN (F)	-0.00939	0.03497	0.11844
	setup	CKN (F)	0.01101	0.07002	0.10841

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	hold	CKN (F)	-0.09078	0.00170	0.10348
	setup	CKN (F)	-0.01032	0.07856	0.20339

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	hold	CKN (F)	-0.02626	0.02445	0.11331
	setup	CKN (F)	-0.07955	0.02376	0.10362

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7L	hold	CKN (F)	-0.12580	-0.03691	0.02777
	setup	CKN (F)	0.00546	0.09546	0.22068

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7L	CKN	(RN * SE)	0.00287	0.00309	0.00380
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00000	0.00002	0.00004
	CKN	(RN * SE)	0.00253	0.00274	0.00346
	CKN	(RN * !SE)	0.00288	0.00309	0.00380
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * !SE)	0.00002	0.00002	0.00004
	CKN	(RN * !SE)	0.00254	0.00274	0.00346

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7L	**CKN**	**(RN * SE)**	0.00244	0.00265	0.00335
	CKN	**(RN * SE)**	0.00000	0.00001	0.00001
	CKN	**(RN * SE)**	-0.00004	-0.00002	-0.00000
	CKN	**(RN * SE)**	0.00217	0.00241	0.00310
	CKN	**(RN * !SE)**	0.00243	0.00274	0.00653
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00002
	CKN	**(RN * !SE)**	-0.00003	-0.00002	-0.00001
	CKN	**(RN * !SE)**	0.00116	0.00238	0.00311
	RN	**(CKN * D * SE * SI)**	0.00189	0.00210	0.00276
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * D * SE * SI)**	-0.00005	-0.00003	-0.00000
	RN	**(CKN * D * SE * SI)**	0.00162	0.00185	0.00251
	RN	**(CKN * D * SE * !SI)**	0.00188	0.00209	0.00276
	RN	**(CKN * D * SE * !SI)**	-0.00006	0.00001	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * D * SE * !SI)**	0.00161	0.00183	0.00251
	RN	**(CKN * D * !SE * SI)**	0.00189	0.00210	0.00276
	RN	**(CKN * D * !SE * SI)**	-0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * SI)**	-0.00005	-0.00003	0.00000
	RN	**(CKN * D * !SE * SI)**	0.00162	0.00185	0.00252
	RN	**(CKN * D * !SE * !SI)**	0.00189	0.00210	0.00276
	RN	**(CKN * D * !SE * !SI)**	-0.00001	0.00002	0.00002
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00003	0.00000
	RN	**(CKN * D * !SE * !SI)**	0.00162	0.00185	0.00253
	RN	**(CKN * !D * SE * SI)**	0.00189	0.00210	0.00276
	RN	**(CKN * !D * SE * SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00003	-0.00000
	RN	**(CKN * !D * SE * SI)**	0.00162	0.00185	0.00251
	RN	**(CKN * !D * SE * !SI)**	0.00188	0.00209	0.00276
	RN	**(CKN * !D * SE * !SI)**	-0.00006	0.00001	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * !D * SE * !SI)**	0.00161	0.00183	0.00251
	RN	**(CKN * !D * !SE * SI)**	0.00188	0.00209	0.00276
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00003	-0.00000
	RN	**(CKN * !D * !SE * SI)**	0.00161	0.00183	0.00251
	RN	**(CKN * !D * !SE * !SI)**	0.00188	0.00209	0.00275
	RN	**(CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00000
	RN	**(CKN * !D * !SE * !SI)**	0.00161	0.00183	0.00251
	RN	**(!CKN * D * SE * SI)**	0.00251	0.00272	0.00336
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00223	0.00244	0.00307
	RN	**(!CKN * D * SE * !SI)**	0.00248	0.00269	0.00333
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00003
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00220	0.00240	0.00305
	RN	**(!CKN * D * !SE * SI)**	0.00251	0.00272	0.00336
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	0.00223	0.00244	0.00310
	RN	**(!CKN * D * !SE * !SI)**	0.00251	0.00272	0.00336
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * D * !SE * !SI)**	0.00223	0.00244	0.00310
	RN	**(!CKN * !D * SE * SI)**	0.00251	0.00272	0.00336
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00223	0.00244	0.00307
	RN	**(!CKN * !D * SE * !SI)**	0.00248	0.00269	0.00333
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00220	0.00240	0.00305
	RN	**(!CKN * !D * !SE * SI)**	0.00248	0.00269	0.00334
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00220	0.00241	0.00305
	RN	**(!CKN * !D * !SE * !SI)**	0.00248	0.00269	0.00334
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00220	0.00240	0.00304

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7L	**CKN**	**(RN * SE)**	0.00243	0.00266	0.00336
	CKN	**(RN * SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * SE)**	-0.00003	-0.00002	-0.00000
	CKN	**(RN * SE)**	0.00219	0.00241	0.00314
	CKN	**(RN * !SE)**	0.00242	0.00265	0.00336
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * !SE)**	-0.00003	-0.00002	-0.00000
	CKN	**(RN * !SE)**	0.00219	0.00241	0.00314
	RN	**(CKN * D * SE * SI)**	0.00188	0.00210	0.00278
	RN	**(CKN * D * SE * SI)**	0.00001	0.00002	0.00003
	RN	**(CKN * D * SE * SI)**	-0.00007	-0.00003	0.00001
	RN	**(CKN * D * SE * SI)**	0.00161	0.00185	0.00254
	RN	**(CKN * D * SE * !SI)**	0.00186	0.00209	0.00277
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00001	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00004	-0.00003	0.00001
	RN	**(CKN * D * SE * !SI)**	0.00162	0.00184	0.00255
	RN	**(CKN * D * !SE * SI)**	0.00189	0.00210	0.00277
	RN	**(CKN * D * !SE * SI)**	-0.00002	0.00002	0.00003
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00003	0.00003
	RN	**(CKN * D * !SE * SI)**	0.00162	0.00185	0.00252
	RN	**(CKN * D * !SE * !SI)**	0.00189	0.00210	0.00276
	RN	**(CKN * D * !SE * !SI)**	0.00002	0.00002	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	0.00003
	RN	**(CKN * D * !SE * !SI)**	0.00162	0.00185	0.00253
	RN	**(CKN * !D * SE * SI)**	0.00188	0.00210	0.00277
	RN	**(CKN * !D * SE * SI)**	0.00001	0.00002	0.00003
	RN	**(CKN * !D * SE * SI)**	-0.00007	-0.00003	0.00001
	RN	**(CKN * !D * SE * SI)**	0.00161	0.00185	0.00254
	RN	**(CKN * !D * SE * !SI)**	0.00186	0.00209	0.00275
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00161	0.00183	0.00251
	RN	**(CKN * !D * !SE * SI)**	-0.00054	0.00204	0.00275
	RN	**(CKN * !D * !SE * SI)**	-0.00002	0.00008	0.00337
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00003	0.00001
	RN	**(CKN * !D * !SE * SI)**	0.00161	0.00185	0.00249
	RN	**(CKN * !D * !SE * !SI)**	-0.00082	0.00204	0.00274
	RN	**(CKN * !D * !SE * !SI)**	-0.00002	0.00009	0.00365
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00003	0.00002
	RN	**(CKN * !D * !SE * !SI)**	0.00163	0.00185	0.00249
	RN	**(!CKN * D * SE * SI)**	0.00253	0.00273	0.00337
	RN	**(!CKN * D * SE * SI)**	-0.00003	0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	-0.00001	-0.00001	0.00000
	RN	**(!CKN * D * SE * SI)**	0.00223	0.00244	0.00308
	RN	**(!CKN * D * SE * !SI)**	0.00247	0.00269	0.00333
	RN	**(!CKN * D * SE * !SI)**	-0.00004	0.00001	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00219	0.00241	0.00305
	RN	**(!CKN * D * !SE * SI)**	0.00251	0.00273	0.00337
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00000	0.00004
	RN	**(!CKN * D * !SE * SI)**	0.00221	0.00244	0.00308
	RN	**(!CKN * D * !SE * !SI)**	0.00251	0.00273	0.00337
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00000	0.00004
	RN	**(!CKN * D * !SE * !SI)**	0.00222	0.00244	0.00308
	RN	**(!CKN * !D * SE * SI)**	0.00252	0.00273	0.00337
	RN	**(!CKN * !D * SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00001	-0.00001	0.00000
	RN	**(!CKN * !D * SE * SI)**	0.00224	0.00244	0.00308
	RN	**(!CKN * !D * SE * !SI)**	0.00247	0.00269	0.00333
	RN	**(!CKN * !D * SE * !SI)**	-0.00004	0.00001	0.00004
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00001	0.00000
	RN	**(!CKN * !D * SE * !SI)**	0.00219	0.00241	0.00305
	RN	**(!CKN * !D * !SE * SI)**	0.00247	0.00269	0.00334
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00001	-0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00220	0.00241	0.00305
	RN	**(!CKN * !D * !SE * !SI)**	0.00247	0.00269	0.00334
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00001	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00220	0.00241	0.00305

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7L	CKN	(RN * SE)	0.00287	0.00308	0.00380
	CKN	(RN * SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * SE)	0.00000	0.00002	0.00005
	CKN	(RN * SE)	0.00253	0.00274	0.00346
	CKN	(RN * !SE)	0.00287	0.00309	0.00380
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00001
	CKN	(RN * !SE)	0.00000	0.00002	0.00005
	CKN	(RN * !SE)	0.00253	0.00274	0.00346

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00291	0.00325	0.00442
	-0.00002	-0.00001	0.00000
	-0.00002	-0.00002	-0.00001
	0.00351	0.00384	0.00501

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00382	0.00414	0.00531
	0.00000	0.00001	0.00003
	0.00002	0.00003	0.00004
	0.00321	0.00354	0.00471

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00138	0.00157	0.00224
	0.00008	0.00009	0.00010
	-0.00010	-0.00010	-0.00010
	0.00236	0.00254	0.00321

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00237	0.00258	0.00336
	-0.00010	-0.00008	-0.00008
	0.00010	0.00010	0.00011
	0.00139	0.00161	0.00239

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00102	0.00136	0.00248
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00157	0.00190	0.00303

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00084	0.00120	0.00244
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00003
	0.00015	0.00052	0.00176

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00105	0.00167	0.00376
	0.00006	0.00008	0.00010
	-0.00010	-0.00009	-0.00007
	0.00267	0.00328	0.00538

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00293	0.00362	0.00593
	-0.00008	-0.00007	-0.00006
	0.00007	0.00009	0.00011
	0.00129	0.00200	0.00431

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00117	0.00133	0.00193
	0.00007	0.00008	0.00008
	-0.00010	-0.00009	-0.00008
	0.00215	0.00232	0.00292

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7L	0.00259	0.00277	0.00347
	-0.00008	-0.00008	-0.00007
	0.00008	0.00009	0.00010
	0.00159	0.00178	0.00248

SDFFNRX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ?(SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX3H7L	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX3H7L	0.00096	0.00085	0.00100	0.00206	0.00085	0.13480	0.13397

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX3H7L	0.00000	10.59480	13.88330

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7L	CKN->Q (FR)	(RN * SE)	0.13040	0.28113	0.65572
	CKN->Q (FR)	(RN * !SE)	0.13040	0.28111	0.65571

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7L	CKN->Q (FF)	(RN * SE)	0.09203	0.21318	0.49753
	CKN->Q (FF)	(RN * !SE)	0.09214	0.21324	0.49743
	RN->Q (FF)	(CKN * D * SE * SI)	0.06929	0.18159	0.44927
	RN->Q (FF)	(CKN * D * SE * !SI)	0.06880	0.18072	0.44765
	RN->Q (FF)	(CKN * D * !SE * SI)	0.06929	0.18160	0.44927
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.06929	0.18160	0.44927
	RN->Q (FF)	(CKN * !D * SE * SI)	0.06929	0.18159	0.44927
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.06880	0.18072	0.44765
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.06880	0.18072	0.44765
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.06880	0.18072	0.44765
	RN->Q (FF)	(!CKN * D * SE * SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.07599	0.18891	0.45808
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.07600	0.18891	0.45808
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.07600	0.18891	0.45808

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7L	CKN->QN (FR)	(RN * SE)	0.06637	0.22498	0.60301
	CKN->QN (FR)	(RN * !SE)	0.06647	0.22506	0.60295
	RN->QN (FR)	(CKN * D * SE * SI)	0.04672	0.19218	0.55066
	RN->QN (FR)	(CKN * D * SE * !SI)	0.04645	0.19137	0.54891
	RN->QN (FR)	(CKN * D * !SE * SI)	0.04673	0.19220	0.55134
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.04673	0.19219	0.55110
	RN->QN (FR)	(CKN * !D * SE * SI)	0.04672	0.19219	0.55119
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.04645	0.19137	0.54883
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.04646	0.19137	0.54882
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.04646	0.19137	0.54882
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05097	0.20019	0.56151
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05096	0.20019	0.56148
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05097	0.20019	0.56152
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05097	0.20019	0.56152
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05097	0.20019	0.56151
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05096	0.20019	0.56148
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05097	0.20019	0.56149
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05097	0.20019	0.56149

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7L	CKN->QN (FF)	(RN * SE)	0.09363	0.23459	0.53073
	CKN->QN (FF)	(RN * !SE)	0.09362	0.23458	0.53060

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	**hold**	**CKN (F)**	-0.01855	0.02746	0.11233
	setup	**CKN (F)**	-0.08110	0.01972	0.09516

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	**hold**	**CKN (F)**	-0.11135	-0.02939	0.03330
	setup	**CKN (F)**	-0.00361	0.08680	0.21346

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	**recovery**	**CKN (F)**	-0.11633	-0.02116	0.02936
	removal	**CKN (F)**	0.03799	0.07957	0.15667

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX3H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	hold	CKN (F)	-0.01410	0.02836	0.11116
	setup	CKN (F)	0.01671	0.07584	0.11020

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	hold	CKN (F)	-0.07743	0.00268	0.09955
	setup	CKN (F)	-0.00958	0.07719	0.19706

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	hold	CKN (F)	-0.02659	0.01936	0.10807
	setup	CKN (F)	-0.07078	0.03186	0.11590

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7L	hold	CKN (F)	-0.12616	-0.04041	0.01936
	setup	CKN (F)	0.01173	0.10455	0.23504

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7L	CKN	(RN * SE)	0.00336	0.00362	0.00453
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00002	0.00002	0.00002
	CKN	(RN * SE)	0.00297	0.00324	0.00415
	CKN	(RN * !SE)	0.00336	0.00362	0.00453
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * !SE)	0.00000	0.00002	0.00004
	CKN	(RN * !SE)	0.00298	0.00324	0.00415

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX3H7L	**CKN**	**(RN * SE)**	0.00293	0.00318	0.00404
	CKN	**(RN * SE)**	0.00000	0.00001	0.00002
	CKN	**(RN * SE)**	-0.00002	-0.00002	-0.00001
	CKN	**(RN * SE)**	0.00264	0.00290	0.00375
	CKN	**(RN * !SE)**	0.00292	0.00318	0.00403
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * !SE)**	-0.00003	-0.00002	0.00000
	CKN	**(RN * !SE)**	0.00264	0.00290	0.00375
	RN	**(CKN * D * SE * SI)**	0.00230	0.00257	0.00335
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * D * SE * SI)**	-0.00005	-0.00003	0.00003
	RN	**(CKN * D * SE * SI)**	0.00198	0.00227	0.00310
	RN	**(CKN * D * SE * !SI)**	0.00230	0.00256	0.00334
	RN	**(CKN * D * SE * !SI)**	0.00001	0.00001	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * D * SE * !SI)**	0.00198	0.00225	0.00308
	RN	**(CKN * D * !SE * SI)**	0.00230	0.00257	0.00335
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00000
	RN	**(CKN * D * !SE * SI)**	0.00199	0.00227	0.00310
	RN	**(CKN * D * !SE * !SI)**	0.00230	0.00257	0.00335
	RN	**(CKN * D * !SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00000
	RN	**(CKN * D * !SE * !SI)**	0.00199	0.00227	0.00310
	RN	**(CKN * !D * SE * SI)**	0.00230	0.00257	0.00335
	RN	**(CKN * !D * SE * SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00003	-0.00000
	RN	**(CKN * !D * SE * SI)**	0.00198	0.00227	0.00310
	RN	**(CKN * !D * SE * !SI)**	0.00230	0.00255	0.00334
	RN	**(CKN * !D * SE * !SI)**	0.00001	0.00001	0.00002
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00198	0.00225	0.00308
	RN	**(CKN * !D * !SE * SI)**	0.00230	0.00256	0.00334
	RN	**(CKN * !D * !SE * SI)**	-0.00003	0.00001	0.00002
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	0.00001
	RN	**(CKN * !D * !SE * SI)**	0.00197	0.00225	0.00308
	RN	**(CKN * !D * !SE * !SI)**	0.00228	0.00255	0.00334
	RN	**(CKN * !D * !SE * !SI)**	0.00001	0.00001	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00003	0.00001
	RN	**(CKN * !D * !SE * !SI)**	0.00197	0.00225	0.00308
	RN	**(!CKN * D * SE * SI)**	0.00300	0.00328	0.00403
	RN	**(!CKN * D * SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(!CKN * D * SE * SI)**	0.00267	0.00294	0.00370
	RN	**(!CKN * D * SE * !SI)**	0.00297	0.00324	0.00400
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * D * SE * !SI)**	0.00264	0.00291	0.00369
	RN	**(!CKN * D * !SE * SI)**	0.00300	0.00328	0.00403
	RN	**(!CKN * D * !SE * SI)**	-0.00004	0.00000	0.00005
	RN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00000	0.00005
	RN	**(!CKN * D * !SE * SI)**	0.00268	0.00294	0.00370
	RN	**(!CKN * D * !SE * !SI)**	0.00300	0.00328	0.00403
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	0.00001	0.00005
	RN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00000	0.00005
	RN	**(!CKN * D * !SE * !SI)**	0.00268	0.00294	0.00370
	RN	**(!CKN * !D * SE * SI)**	0.00300	0.00327	0.00403
	RN	**(!CKN * !D * SE * SI)**	-0.00003	0.00001	0.00005
	RN	**(!CKN * !D * SE * SI)**	-0.00001	-0.00000	0.00003
	RN	**(!CKN * !D * SE * SI)**	0.00267	0.00294	0.00370
	RN	**(!CKN * !D * SE * !SI)**	0.00297	0.00324	0.00400
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * !D * SE * !SI)**	0.00263	0.00291	0.00369
	RN	**(!CKN * !D * !SE * SI)**	0.00298	0.00324	0.00400
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * !D * !SE * SI)**	0.00264	0.00291	0.00367
	RN	**(!CKN * !D * !SE * !SI)**	0.00297	0.00324	0.00400
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * !D * !SE * !SI)**	0.00264	0.00291	0.00367

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX3H7L	**CKN**	**(RN * SE)**	0.00292	0.00319	0.00404
	CKN	**(RN * SE)**	-0.00000	0.00001	0.00004
	CKN	**(RN * SE)**	-0.00003	-0.00002	0.00000
	CKN	**(RN * SE)**	0.00265	0.00290	0.00375
	CKN	**(RN * !SE)**	0.00292	0.00319	0.00404
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * !SE)**	-0.00003	-0.00002	0.00000
	CKN	**(RN * !SE)**	0.00265	0.00291	0.00375
	RN	**(CKN * D * SE * SI)**	0.00229	0.00257	0.00334
	RN	**(CKN * D * SE * SI)**	-0.00002	0.00002	0.00005
	RN	**(CKN * D * SE * SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * D * SE * SI)**	0.00200	0.00227	0.00307
	RN	**(CKN * D * SE * !SI)**	0.00231	0.00256	0.00334
	RN	**(CKN * D * SE * !SI)**	-0.00003	0.00001	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00199	0.00226	0.00307
	RN	**(CKN * D * !SE * SI)**	0.00228	0.00257	0.00338
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00002	0.00005
	RN	**(CKN * D * !SE * SI)**	-0.00008	-0.00003	0.00001
	RN	**(CKN * D * !SE * SI)**	0.00198	0.00228	0.00315
	RN	**(CKN * D * !SE * !SI)**	0.00228	0.00257	0.00337
	RN	**(CKN * D * !SE * !SI)**	0.00002	0.00002	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	0.00003
	RN	**(CKN * D * !SE * !SI)**	0.00198	0.00227	0.00312
	RN	**(CKN * !D * SE * SI)**	0.00229	0.00257	0.00337
	RN	**(CKN * !D * SE * SI)**	-0.00002	0.00002	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * !D * SE * SI)**	0.00200	0.00227	0.00314
	RN	**(CKN * !D * SE * !SI)**	0.00227	0.00256	0.00337
	RN	**(CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00005
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00003
	RN	**(CKN * !D * SE * !SI)**	0.00198	0.00226	0.00310
	RN	**(CKN * !D * !SE * SI)**	0.00228	0.00256	0.00336
	RN	**(CKN * !D * !SE * SI)**	-0.00002	0.00002	0.00006
	RN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * SI)**	0.00199	0.00226	0.00309
	RN	**(CKN * !D * !SE * !SI)**	0.00228	0.00256	0.00336
	RN	**(CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00006
	RN	**(CKN * !D * !SE * !SI)**	-0.00003	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * !SI)**	0.00199	0.00226	0.00309
	RN	**(!CKN * D * SE * SI)**	0.00299	0.00328	0.00403
	RN	**(!CKN * D * SE * SI)**	-0.00006	0.00001	0.00006
	RN	**(!CKN * D * SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(!CKN * D * SE * SI)**	0.00269	0.00295	0.00371
	RN	**(!CKN * D * SE * !SI)**	0.00297	0.00324	0.00400
	RN	**(!CKN * D * SE * !SI)**	-0.00004	0.00001	0.00005
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00266	0.00291	0.00368
	RN	**(!CKN * D * !SE * SI)**	0.00301	0.00328	0.00404
	RN	**(!CKN * D * !SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00000	0.00000	0.00006
	RN	**(!CKN * D * !SE * SI)**	0.00267	0.00294	0.00371
	RN	**(!CKN * D * !SE * !SI)**	0.00301	0.00328	0.00404
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * D * !SE * !SI)**	-0.00000	0.00000	0.00006
	RN	**(!CKN * D * !SE * !SI)**	0.00267	0.00294	0.00371
	RN	**(!CKN * !D * SE * SI)**	0.00299	0.00328	0.00403
	RN	**(!CKN * !D * SE * SI)**	-0.00005	0.00001	0.00006
	RN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(!CKN * !D * SE * SI)**	0.00270	0.00295	0.00371
	RN	**(!CKN * !D * SE * !SI)**	0.00297	0.00324	0.00400
	RN	**(!CKN * !D * SE * !SI)**	-0.00003	0.00001	0.00006
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00266	0.00291	0.00368
	RN	**(!CKN * !D * !SE * SI)**	0.00298	0.00325	0.00400
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00267	0.00292	0.00368
	RN	**(!CKN * !D * !SE * !SI)**	0.00298	0.00325	0.00400
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00000	-0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00267	0.00291	0.00368

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7L	CKN	(RN * SE)	0.00335	0.00362	0.00453
	CKN	(RN * SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * SE)	0.00000	0.00002	0.00005
	CKN	(RN * SE)	0.00297	0.00324	0.00414
	CKN	(RN * !SE)	0.00335	0.00362	0.00453
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * !SE)	0.00000	0.00002	0.00004
	CKN	(RN * !SE)	0.00297	0.00324	0.00415

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00310	0.00349	0.00485
	-0.00001	-0.00001	-0.00000
	-0.00004	-0.00002	-0.00001
	0.00377	0.00417	0.00553

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00417	0.00455	0.00592
	0.00000	0.00001	0.00002
	0.00001	0.00003	0.00004
	0.00350	0.00387	0.00524

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00152	0.00172	0.00246
	0.00010	0.00011	0.00012
	-0.00012	-0.00011	-0.00011
	0.00259	0.00279	0.00353

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00261	0.00284	0.00369
	-0.00011	-0.00011	-0.00010
	0.00011	0.00012	0.00012
	0.00153	0.00177	0.00262

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00108	0.00148	0.00281
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00171	0.00210	0.00343

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00089	0.00132	0.00277
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00011	0.00055	0.00200

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00116	0.00185	0.00419
	0.00010	0.00011	0.00013
	-0.00012	-0.00011	-0.00009
	0.00295	0.00363	0.00597

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00319	0.00398	0.00657
	-0.00010	-0.00010	-0.00009
	0.00009	0.00011	0.00012
	0.00143	0.00221	0.00479

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00132	0.00148	0.00208
	0.00009	0.00009	0.00010
	-0.00011	-0.00011	-0.00010
	0.00234	0.00250	0.00309

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7L	0.00278	0.00296	0.00366
	-0.00010	-0.00009	-0.00009
	0.00010	0.00011	0.00011
	0.00175	0.00194	0.00264

SDFFNSX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX0P5H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX0P5H7L	0.00088	0.00075	0.00188	0.00083	0.00075	0.06357	0.06363

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX0P5H7L	0.00000	6.83602	9.46720

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7L	CKN->Q (FR)	(SE * SN)	0.10675	0.25898	0.63307
	CKN->Q (FR)	(!SE * SN)	0.10673	0.25897	0.63304
	SN->Q (FR)	(CKN * D * SE * SI)	0.07407	0.22952	0.61131
	SN->Q (FR)	(CKN * D * SE * !SI)	0.07816	0.23675	0.62568
	SN->Q (FR)	(CKN * D * !SE * SI)	0.07407	0.22953	0.61136
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.07407	0.22953	0.61118
	SN->Q (FR)	(CKN * !D * SE * SI)	0.07407	0.22952	0.61124
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.07816	0.23675	0.62568
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.07817	0.23676	0.62575
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.07817	0.23676	0.62575
	SN->Q (FR)	(!CKN * D * SE * SI)	0.08455	0.24552	0.64340
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.08455	0.24552	0.64341
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.08455	0.24552	0.64340
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.08455	0.24552	0.64340
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.08455	0.24553	0.64340
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.08455	0.24553	0.64340
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.08455	0.24553	0.64339
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.08455	0.24552	0.64339

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7L	CKN->Q (FF)	(SE * SN)	0.09972	0.21954	0.50180
	CKN->Q (FF)	(!SE * SN)	0.09976	0.21957	0.50181

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7L	CKN->QN (FR)	(SE * SN)	0.07348	0.23710	0.62080
	CKN->QN (FR)	(!SE * SN)	0.07353	0.23714	0.62080

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7L	CKN->QN (FF)	(SE * SN)	0.07899	0.20701	0.49130
	CKN->QN (FF)	(!SE * SN)	0.07897	0.20700	0.49130
	SN->QN (FF)	(CKN * D * SE * SI)	0.04709	0.17495	0.46980
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05054	0.18194	0.48309
	SN->QN (FF)	(CKN * D * !SE * SI)	0.04709	0.17496	0.46980
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.04709	0.17496	0.46980
	SN->QN (FF)	(CKN * !D * SE * SI)	0.04709	0.17495	0.46980
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05054	0.18194	0.48312
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05055	0.18195	0.48310
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05055	0.18195	0.48318
	SN->QN (FF)	(!CKN * D * SE * SI)	0.05502	0.19509	0.51333
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.05502	0.19508	0.51313
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.05502	0.19508	0.51332
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.05502	0.19509	0.51335
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.05502	0.19509	0.51334
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.05502	0.19509	0.51306
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.05502	0.19510	0.51334
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.05502	0.19509	0.51335

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	**hold**	**CKN (F)**	-0.02468	0.02388	0.11127
	setup	**CKN (F)**	-0.08227	0.01306	0.09081

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	**hold**	**CKN (F)**	-0.15627	-0.06080	0.01066
	setup	**CKN (F)**	0.01225	0.09647	0.21974

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	**hold**	**CKN (F)**	-0.00994	0.03471	0.11842
	setup	**CKN (F)**	0.02475	0.07803	0.11576

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	**hold**	**CKN (F)**	-0.09397	-0.00211	0.09942
	setup	**CKN (F)**	0.00379	0.08865	0.21557

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	hold	CKN (F)	-0.02305	0.02442	0.11127
	setup	CKN (F)	-0.08227	0.01236	0.09007

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	hold	CKN (F)	-0.16945	-0.06742	0.00346
	setup	CKN (F)	0.02003	0.10498	0.23446

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7L	recovery	CKN (F)	-0.08255	0.00028	0.11706
	removal	CKN (F)	0.07179	0.12859	0.25478

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00241	0.00263	0.00332
	CKN	**(SE * SN)**	-0.00002	-0.00001	0.00001
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00206	0.00227	0.00297
	CKN	**(!SE * SN)**	0.00241	0.00263	0.00333
	CKN	**(!SE * SN)**	-0.00002	-0.00001	0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00001
	CKN	**(!SE * SN)**	0.00206	0.00227	0.00297
	SN	**(CKN * D * SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * SE * SI)**	-0.00005	-0.00003	-0.00000
	SN	**(CKN * D * SE * SI)**	0.00003	0.00003	0.00004
	SN	**(CKN * D * SE * SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * D * SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CKN * D * SE * !SI)**	0.00002	0.00004	0.00005
	SN	**(CKN * D * SE * !SI)**	0.00118	0.00132	0.00187
	SN	**(CKN * D * !SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * !SE * SI)**	-0.00005	-0.00003	-0.00003
	SN	**(CKN * D * !SE * SI)**	-0.00007	0.00003	0.00004
	SN	**(CKN * D * !SE * SI)**	0.00111	0.00126	0.00180
	SN	**(CKN * D * !SE * !SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00003	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00002	0.00003	0.00005
	SN	**(CKN * D * !SE * !SI)**	0.00111	0.00126	0.00180
	SN	**(CKN * !D * SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * !D * SE * SI)**	-0.00005	-0.00003	-0.00000
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00003	0.00004
	SN	**(CKN * !D * SE * SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * !D * SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00000
	SN	**(CKN * !D * SE * !SI)**	0.00002	0.00004	0.00005
	SN	**(CKN * !D * SE * !SI)**	0.00118	0.00132	0.00186
	SN	**(CKN * !D * !SE * SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * !D * !SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00004	0.00006
SDFFNSX0P5H7L	**SN**	**(CKN * !D * !SE * SI)**	0.00117	0.00132	0.00187
	SN	**(CKN * !D * !SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00117	0.00132	0.00187
	SN	**(!CKN * D * SE * SI)**	0.00205	0.00222	0.00288
	SN	**(!CKN * D * SE * SI)**	-0.00001	-0.00001	0.00002
	SN	**(!CKN * D * SE * SI)**	0.00001	0.00002	0.00037
	SN	**(!CKN * D * SE * SI)**	0.00148	0.00193	0.00260
	SN	**(!CKN * D * SE * !SI)**	0.00210	0.00225	0.00291
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	-0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00002	0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	0.00180	0.00197	0.00263
	SN	**(!CKN * D * !SE * SI)**	0.00207	0.00222	0.00288
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00009
	SN	**(!CKN * D * !SE * SI)**	0.00171	0.00193	0.00260
	SN	**(!CKN * D * !SE * !SI)**	0.00207	0.00222	0.00288
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00177	0.00193	0.00260
	SN	**(!CKN * !D * SE * SI)**	0.00207	0.00222	0.00288
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00001	-0.00001
	SN	**(!CKN * !D * SE * SI)**	-0.00158	-0.00006	0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00178	0.00199	0.00326
	SN	**(!CKN * !D * SE * !SI)**	0.00210	0.00225	0.00291
	SN	**(!CKN * !D * SE * !SI)**	-0.00006	-0.00001	-0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	0.00181	0.00196	0.00263
	SN	**(!CKN * !D * !SE * SI)**	0.00208	0.00225	0.00291
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00001	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00000	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00180	0.00197	0.00263
	SN	**(!CKN * !D * !SE * !SI)**	0.00208	0.00225	0.00291
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00001	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00000	0.00001	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00180	0.00197	0.00263

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7L	CKN	(SE * SN)	0.00224	0.00244	0.00314
	CKN	(SE * SN)	0.00000	0.00002	0.00003
	CKN	(SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(SE * SN)	0.00196	0.00219	0.00288
	CKN	(!SE * SN)	0.00224	0.00244	0.00314
	CKN	(!SE * SN)	0.00000	0.00001	0.00003
	CKN	(!SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(!SE * SN)	0.00196	0.00219	0.00289

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7L	CKN	(SE * SN)	0.00224	0.00245	0.00314
	CKN	(SE * SN)	0.00000	0.00002	0.00004
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00197	0.00219	0.00290
	CKN	(!SE * SN)	0.00223	0.00245	0.00314
	CKN	(!SE * SN)	0.00000	0.00002	0.00003
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(!SE * SN)	0.00196	0.00219	0.00290

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00240	0.00263	0.00332
	CKN	**(SE * SN)**	-0.00002	-0.00001	0.00000
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00204	0.00227	0.00296
	CKN	**(!SE * SN)**	0.00240	0.00263	0.00332
	CKN	**(!SE * SN)**	-0.00003	-0.00001	0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00204	0.00227	0.00297
	SN	**(CKN * D * SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * D * SE * SI)**	0.00002	0.00003	0.00004
	SN	**(CKN * D * SE * SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * D * SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00117	0.00132	0.00186
	SN	**(CKN * D * !SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * D * !SE * SI)**	0.00002	0.00003	0.00005
	SN	**(CKN * D * !SE * SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * D * !SE * !SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00003	0.00005
	SN	**(CKN * D * !SE * !SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * !D * SE * SI)**	0.00144	0.00158	0.00211
	SN	**(CKN * !D * SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00004
	SN	**(CKN * !D * SE * SI)**	0.00111	0.00125	0.00180
	SN	**(CKN * !D * SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * !D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00117	0.00132	0.00186
	SN	**(CKN * !D * !SE * SI)**	0.00152	0.00166	0.00220
	SN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * !SE * SI)**	0.00117	0.00132	0.00186
SDFFNSX0P5H7L	**SN**	**(CKN * !D * !SE * !SI)**	0.00151	0.00166	0.00220
	SN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00117	0.00132	0.00186
	SN	**(!CKN * D * SE * SI)**	0.00206	0.00221	0.00288
	SN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	-0.00000
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * SI)**	0.00178	0.00193	0.00260
	SN	**(!CKN * D * SE * !SI)**	0.00209	0.00225	0.00291
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * D * SE * !SI)**	0.00181	0.00196	0.00263
	SN	**(!CKN * D * !SE * SI)**	0.00206	0.00222	0.00288
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00001	-0.00000
	SN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * SI)**	0.00177	0.00193	0.00260
	SN	**(!CKN * D * !SE * !SI)**	0.00206	0.00222	0.00288
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	-0.00000
	SN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00177	0.00193	0.00260
	SN	**(!CKN * !D * SE * SI)**	0.00206	0.00221	0.00288
	SN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00001	-0.00000
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * SI)**	0.00178	0.00193	0.00260
	SN	**(!CKN * !D * SE * !SI)**	0.00209	0.00225	0.00291
	SN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00181	0.00196	0.00263
	SN	**(!CKN * !D * !SE * SI)**	0.00209	0.00225	0.00291
	SN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00181	0.00196	0.00263
	SN	**(!CKN * !D * !SE * !SI)**	0.00209	0.00225	0.00291
	SN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00181	0.00196	0.00263

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00299	0.00333	0.00452
	-0.00001	-0.00001	-0.00000
	-0.00002	-0.00001	-0.00001
	0.00361	0.00396	0.00515

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00366	0.00401	0.00522
	0.00000	0.00001	0.00003
	0.00001	0.00001	0.00002
	0.00303	0.00337	0.00459

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00157	0.00174	0.00235
	0.00009	0.00009	0.00010
	-0.00010	-0.00010	-0.00009
	0.00251	0.00268	0.00329

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00240	0.00259	0.00328
	-0.00009	-0.00009	-0.00009
	0.00010	0.00010	0.00010
	0.00145	0.00164	0.00233

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00126	0.00186	0.00392
	0.00009	0.00009	0.00010
	-0.00010	-0.00009	-0.00008
	0.00288	0.00350	0.00556

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00299	0.00366	0.00592
	-0.00010	-0.00009	-0.00008
	0.00008	0.00009	0.00010
	0.00136	0.00202	0.00428

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00138	0.00153	0.00211
	0.00008	0.00009	0.00010
	-0.00010	-0.00010	-0.00009
	0.00237	0.00253	0.00311

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00261	0.00279	0.00345
	-0.00009	-0.00009	-0.00008
	0.00009	0.00010	0.00010
	0.00161	0.00179	0.00245

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00050	0.00051	0.00051
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00113	0.00114	0.00114

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7L	0.00019	0.00020	0.00021
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00027	-0.00026	-0.00024

SDFFNSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI :!SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX1H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX1H7L	0.00088	0.00075	0.00188	0.00083	0.00077	0.07520	0.07507

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX1H7L	0.00000	7.09473	9.73549

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7L	CKN->Q (FR)	(SE * SN)	0.10458	0.25671	0.63050
	CKN->Q (FR)	(!SE * SN)	0.10457	0.25671	0.63070
	SN->Q (FR)	(CKN * D * SE * SI)	0.07388	0.22995	0.61366
	SN->Q (FR)	(CKN * D * SE * !SI)	0.07820	0.23726	0.62832
	SN->Q (FR)	(CKN * D * !SE * SI)	0.07388	0.22996	0.61385
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.07388	0.22996	0.61377
	SN->Q (FR)	(CKN * !D * SE * SI)	0.07388	0.22995	0.61359
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.07820	0.23726	0.62816
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.07820	0.23728	0.62838
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.07820	0.23727	0.62811
	SN->Q (FR)	(!CKN * D * SE * SI)	0.08496	0.24665	0.64640
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.08496	0.24665	0.64640
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.08496	0.24665	0.64641
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.08496	0.24665	0.64641
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.08496	0.24665	0.64641
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.08496	0.24664	0.64640
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.08496	0.24665	0.64640
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.08496	0.24665	0.64640

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7L	CKN->Q (FF)	(SE * SN)	0.09747	0.21758	0.50036
	CKN->Q (FF)	(!SE * SN)	0.09754	0.21761	0.50036

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7L	CKN->QN (FR)	(SE * SN)	0.07137	0.23445	0.61631
	CKN->QN (FR)	(!SE * SN)	0.07143	0.23447	0.61632

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7L	CKN->QN (FF)	(SE * SN)	0.07774	0.20620	0.49087
	CKN->QN (FF)	(!SE * SN)	0.07773	0.20620	0.49087
	SN->QN (FF)	(CKN * D * SE * SI)	0.04740	0.17703	0.47502
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05106	0.18409	0.48849
	SN->QN (FF)	(CKN * D * !SE * SI)	0.04740	0.17703	0.47505
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.04740	0.17703	0.47505
	SN->QN (FF)	(CKN * !D * SE * SI)	0.04740	0.17703	0.47503
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05106	0.18409	0.48849
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05106	0.18410	0.48853
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05106	0.18410	0.48853
	SN->QN (FF)	(!CKN * D * SE * SI)	0.05593	0.19802	0.51972
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.05593	0.19801	0.51968
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.05593	0.19801	0.51973
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.05593	0.19801	0.51973
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.05593	0.19801	0.51967
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.05593	0.19801	0.51973
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.05593	0.19800	0.51959
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.05593	0.19800	0.51959

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	**hold**	**CKN (F)**	-0.02179	0.02438	0.11217
	setup	**CKN (F)**	-0.08227	0.01286	0.08925

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	**hold**	**CKN (F)**	-0.15625	-0.05927	0.01012
	setup	**CKN (F)**	0.01193	0.09616	0.21982

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	**hold**	**CKN (F)**	-0.00853	0.03469	0.11938
	setup	**CKN (F)**	0.02475	0.07785	0.11441

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	**hold**	**CKN (F)**	-0.09449	-0.00226	0.09797
	setup	**CKN (F)**	0.00191	0.08834	0.21664

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	hold	CKN (F)	-0.02383	0.02486	0.11217
	setup	CKN (F)	-0.08227	0.01285	0.09007

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	hold	CKN (F)	-0.16380	-0.06599	0.00374
	setup	CKN (F)	0.01755	0.10479	0.23315

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7L	recovery	CKN (F)	-0.08384	-0.00112	0.11535
	removal	CKN (F)	0.07091	0.12944	0.25701

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00248	0.00270	0.00339
	CKN	**(SE * SN)**	-0.00002	-0.00002	-0.00000
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00213	0.00234	0.00304
	CKN	**(!SE * SN)**	0.00248	0.00270	0.00340
	CKN	**(!SE * SN)**	-0.00002	-0.00001	0.00000
	CKN	**(!SE * SN)**	0.00001	0.00001	0.00001
	CKN	**(!SE * SN)**	0.00213	0.00235	0.00305
	SN	**(CKN * D * SE * SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * D * SE * SI)**	0.00001	0.00003	0.00005
	SN	**(CKN * D * SE * SI)**	0.00115	0.00132	0.00193
	SN	**(CKN * D * SE * !SI)**	0.00159	0.00174	0.00234
	SN	**(CKN * D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00004	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00122	0.00139	0.00199
	SN	**(CKN * D * !SE * SI)**	0.00150	0.00166	0.00225
	SN	**(CKN * D * !SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * D * !SE * SI)**	0.00001	0.00005	0.00106
	SN	**(CKN * D * !SE * SI)**	0.00022	0.00130	0.00193
	SN	**(CKN * D * !SE * !SI)**	0.00150	0.00166	0.00225
	SN	**(CKN * D * !SE * !SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * D * !SE * !SI)**	0.00001	0.00006	0.00112
	SN	**(CKN * D * !SE * !SI)**	0.00017	0.00130	0.00193
	SN	**(CKN * !D * SE * SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * !D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * !D * SE * SI)**	0.00001	0.00003	0.00005
	SN	**(CKN * !D * SE * SI)**	0.00115	0.00132	0.00193
	SN	**(CKN * !D * SE * !SI)**	0.00159	0.00173	0.00234
	SN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00004	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00122	0.00139	0.00199
	SN	**(CKN * !D * !SE * SI)**	0.00158	0.00174	0.00234
	SN	**(CKN * !D * !SE * SI)**	-0.00006	-0.00003	-0.00002
	SN	**(CKN * !D * !SE * SI)**	0.00004	0.00005	0.00015
	SN	**(CKN * !D * !SE * SI)**	0.00117	0.00139	0.00199
SDFFNSX1H7L	**SN**	**(CKN * !D * !SE * !SI)**	0.00158	0.00174	0.00234
	SN	**(CKN * !D * !SE * !SI)**	-0.00006	-0.00003	-0.00002
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00005	0.00015
	SN	**(CKN * !D * !SE * !SI)**	0.00117	0.00139	0.00199
	SN	**(!CKN * D * SE * SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * D * SE * SI)**	-0.00004	-0.00001	0.00002
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * D * SE * !SI)**	0.00219	0.00235	0.00309
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00004
	SN	**(!CKN * D * SE * !SI)**	0.00188	0.00205	0.00280
	SN	**(!CKN * D * !SE * SI)**	0.00215	0.00232	0.00305
	SN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00001	0.00002
	SN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * SI)**	0.00185	0.00202	0.00277
	SN	**(!CKN * D * !SE * !SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00001	0.00002
	SN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00004
	SN	**(!CKN * D * !SE * !SI)**	0.00185	0.00202	0.00277
	SN	**(!CKN * !D * SE * SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00001	0.00002
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * !D * SE * !SI)**	0.00219	0.00235	0.00309
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00004
	SN	**(!CKN * !D * SE * !SI)**	0.00188	0.00205	0.00280
	SN	**(!CKN * !D * !SE * SI)**	0.00219	0.00235	0.00309
	SN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00001	0.00002
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00189	0.00206	0.00280
	SN	**(!CKN * !D * !SE * !SI)**	0.00219	0.00235	0.00309
	SN	**(!CKN * !D * !SE * !SI)**	-0.00004	-0.00001	-0.00001
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00188	0.00205	0.00280

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7L	CKN	(SE * SN)	0.00231	0.00252	0.00323
	CKN	(SE * SN)	0.00000	0.00002	0.00004
	CKN	(SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(SE * SN)	0.00204	0.00226	0.00297
	CKN	(!SE * SN)	0.00231	0.00252	0.00323
	CKN	(!SE * SN)	0.00000	0.00001	0.00003
	CKN	(!SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(!SE * SN)	0.00204	0.00227	0.00297

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7L	CKN	(SE * SN)	0.00232	0.00252	0.00323
	CKN	(SE * SN)	0.00000	0.00002	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(SE * SN)	0.00203	0.00227	0.00297
	CKN	(!SE * SN)	0.00230	0.00252	0.00323
	CKN	(!SE * SN)	0.00001	0.00002	0.00005
	CKN	(!SE * SN)	-0.00001	-0.00001	0.00000
	CKN	(!SE * SN)	0.00206	0.00227	0.00297

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00248	0.00270	0.00339
	CKN	**(SE * SN)**	-0.00002	-0.00001	0.00000
	CKN	**(SE * SN)**	-0.00001	0.00001	0.00003
	CKN	**(SE * SN)**	0.00211	0.00234	0.00304
	CKN	**(!SE * SN)**	0.00248	0.00270	0.00341
	CKN	**(!SE * SN)**	-0.00002	-0.00001	-0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00213	0.00234	0.00306
	SN	**(CKN * D * SE * SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * D * SE * SI)**	0.00003	0.00003	0.00005
	SN	**(CKN * D * SE * SI)**	0.00117	0.00132	0.00192
	SN	**(CKN * D * SE * !SI)**	0.00158	0.00173	0.00234
	SN	**(CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CKN * D * SE * !SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00123	0.00139	0.00199
	SN	**(CKN * D * !SE * SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00003	0.00005
	SN	**(CKN * D * !SE * SI)**	0.00117	0.00132	0.00192
	SN	**(CKN * D * !SE * !SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00003	0.00005
	SN	**(CKN * D * !SE * !SI)**	0.00117	0.00132	0.00192
	SN	**(CKN * !D * SE * SI)**	0.00150	0.00165	0.00225
	SN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00003	0.00005
	SN	**(CKN * !D * SE * SI)**	0.00117	0.00132	0.00192
	SN	**(CKN * !D * SE * !SI)**	0.00158	0.00173	0.00234
	SN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CKN * !D * SE * !SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00123	0.00139	0.00199
	SN	**(CKN * !D * !SE * SI)**	0.00158	0.00173	0.00234
	SN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * !D * !SE * SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * !D * !SE * SI)**	0.00123	0.00139	0.00199
SDFFNSX1H7L	**SN**	**(CKN * !D * !SE * !SI)**	0.00158	0.00173	0.00234
	SN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * !D * !SE * !SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00123	0.00139	0.00199
	SN	**(!CKN * D * SE * SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * D * SE * !SI)**	0.00218	0.00235	0.00308
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00189	0.00205	0.00280
	SN	**(!CKN * D * !SE * SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * D * !SE * !SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * !D * SE * SI)**	0.00215	0.00231	0.00305
	SN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * SI)**	0.00185	0.00202	0.00276
	SN	**(!CKN * !D * SE * !SI)**	0.00218	0.00235	0.00308
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00189	0.00205	0.00280
	SN	**(!CKN * !D * !SE * SI)**	0.00217	0.00235	0.00309
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00188	0.00205	0.00280
	SN	**(!CKN * !D * !SE * !SI)**	0.00217	0.00235	0.00309
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00188	0.00205	0.00280

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00303	0.00336	0.00455
	-0.00002	-0.00001	-0.00000
	-0.00003	-0.00002	-0.00001
	0.00365	0.00399	0.00518

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00371	0.00406	0.00527
	0.00000	0.00001	0.00002
	0.00002	0.00002	0.00003
	0.00306	0.00341	0.00462

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00160	0.00177	0.00239
	0.00009	0.00009	0.00009
	-0.00010	-0.00009	-0.00009
	0.00254	0.00270	0.00332

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00242	0.00261	0.00332
	-0.00009	-0.00009	-0.00009
	0.00009	0.00010	0.00010
	0.00148	0.00167	0.00238

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00129	0.00189	0.00396
	0.00008	0.00009	0.00009
	-0.00010	-0.00009	-0.00008
	0.00291	0.00352	0.00560

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00301	0.00369	0.00596
	-0.00009	-0.00008	-0.00007
	0.00009	0.00009	0.00010
	0.00137	0.00206	0.00433

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00140	0.00156	0.00215
	0.00008	0.00008	0.00009
	-0.00010	-0.00009	-0.00009
	0.00240	0.00255	0.00315

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00263	0.00282	0.00349
	-0.00009	-0.00008	-0.00008
	0.00009	0.00010	0.00010
	0.00164	0.00182	0.00249

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00051	0.00052	0.00052
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00117	0.00117	0.00118

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7L	0.00019	0.00020	0.00021
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00025

SDFFNSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI :!SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX2H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX2H7L	0.00088	0.00075	0.00188	0.00083	0.00079	0.08664	0.08658

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX2H7L	0.00000	7.48673	10.07640

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7L	CKN->Q (FR)	(SE * SN)	0.10103	0.25283	0.62603
	CKN->Q (FR)	(!SE * SN)	0.10103	0.25283	0.62587
	SN->Q (FR)	(CKN * D * SE * SI)	0.07438	0.23103	0.61689
	SN->Q (FR)	(CKN * D * SE * !SI)	0.07897	0.23854	0.63153
	SN->Q (FR)	(CKN * D * !SE * SI)	0.07438	0.23103	0.61689
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.07438	0.23103	0.61689
	SN->Q (FR)	(CKN * !D * SE * SI)	0.07438	0.23103	0.61689
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.07897	0.23854	0.63153
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.07898	0.23855	0.63166
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.07898	0.23855	0.63160
	SN->Q (FR)	(!CKN * D * SE * SI)	0.08637	0.24870	0.65098
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.08637	0.24871	0.65098
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.08637	0.24870	0.65098
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.08637	0.24870	0.65098
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.08637	0.24870	0.65098
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.08637	0.24871	0.65098
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.08637	0.24870	0.65098
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.08637	0.24870	0.65098

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7L	CKN->Q (FF)	(SE * SN)	0.09554	0.21590	0.49952
	CKN->Q (FF)	(!SE * SN)	0.09557	0.21594	0.49954

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7L	CKN->QN (FR)	(SE * SN)	0.07082	0.23418	0.61639
	CKN->QN (FR)	(!SE * SN)	0.07085	0.23421	0.61639

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7L	CKN->QN (FF)	(SE * SN)	0.07534	0.20339	0.48765
	CKN->QN (FF)	(!SE * SN)	0.07534	0.20339	0.48764
	SN->QN (FF)	(CKN * D * SE * SI)	0.04819	0.17965	0.48143
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05211	0.18689	0.49485
	SN->QN (FF)	(CKN * D * !SE * SI)	0.04819	0.17965	0.48143
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.04819	0.17965	0.48143
	SN->QN (FF)	(CKN * !D * SE * SI)	0.04819	0.17965	0.48143
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05211	0.18689	0.49485
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05211	0.18690	0.49487
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05211	0.18690	0.49486
	SN->QN (FF)	(!CKN * D * SE * SI)	0.05754	0.20166	0.52703
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.05754	0.20167	0.52703
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.05754	0.20167	0.52703
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.05754	0.20166	0.52703
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.05754	0.20166	0.52703
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.05754	0.20167	0.52703
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.05754	0.20166	0.52703
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.05754	0.20166	0.52703

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	**hold**	**CKN (F)**	-0.02529	0.02375	0.11238
	setup	**CKN (F)**	-0.08537	0.01297	0.09256

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	**hold**	**CKN (F)**	-0.15574	-0.05997	0.00966
	setup	**CKN (F)**	0.00779	0.09616	0.22352

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	**hold**	**CKN (F)**	-0.01045	0.03384	0.11776
	setup	**CKN (F)**	0.02475	0.07785	0.11441

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	**hold**	**CKN (F)**	-0.09460	-0.00243	0.09888
	setup	**CKN (F)**	0.00175	0.08857	0.21772

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	hold	CKN (F)	-0.02343	0.02441	0.11218
	setup	CKN (F)	-0.08267	0.01309	0.08896

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	hold	CKN (F)	-0.16835	-0.06730	0.00118
	setup	CKN (F)	0.01765	0.10468	0.23360

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7L	recovery	CKN (F)	-0.08605	-0.00357	0.11327
	removal	CKN (F)	0.07207	0.13018	0.25741

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00256	0.00279	0.00352
	CKN	**(SE * SN)**	-0.00002	-0.00002	0.00001
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00221	0.00244	0.00319
	CKN	**(!SE * SN)**	0.00256	0.00279	0.00352
	CKN	**(!SE * SN)**	-0.00002	-0.00002	0.00001
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00221	0.00244	0.00317
	SN	**(CKN * D * SE * SI)**	0.00157	0.00173	0.00240
	SN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	0.00001
	SN	**(CKN * D * SE * SI)**	0.00003	0.00003	0.00007
	SN	**(CKN * D * SE * SI)**	0.00124	0.00140	0.00207
	SN	**(CKN * D * SE * !SI)**	0.00165	0.00182	0.00249
	SN	**(CKN * D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CKN * D * SE * !SI)**	0.00004	0.00004	0.00005
	SN	**(CKN * D * SE * !SI)**	0.00131	0.00147	0.00214
	SN	**(CKN * D * !SE * SI)**	0.00158	0.00174	0.00240
	SN	**(CKN * D * !SE * SI)**	-0.00003	-0.00003	-0.00002
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00003	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00124	0.00140	0.00207
	SN	**(CKN * D * !SE * !SI)**	0.00158	0.00174	0.00240
	SN	**(CKN * D * !SE * !SI)**	-0.00003	-0.00003	-0.00002
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00003	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00124	0.00140	0.00207
	SN	**(CKN * !D * SE * SI)**	0.00157	0.00174	0.00240
	SN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	0.00001
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00003	0.00007
	SN	**(CKN * !D * SE * SI)**	0.00124	0.00140	0.00207
	SN	**(CKN * !D * SE * !SI)**	0.00165	0.00182	0.00249
	SN	**(CKN * !D * SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * !D * SE * !SI)**	0.00004	0.00004	0.00005
	SN	**(CKN * !D * SE * !SI)**	0.00131	0.00147	0.00214
	SN	**(CKN * !D * !SE * SI)**	0.00165	0.00183	0.00249
	SN	**(CKN * !D * !SE * SI)**	-0.00025	-0.00004	-0.00001
	SN	**(CKN * !D * !SE * SI)**	0.00004	0.00004	0.00005
	SN	**(CKN * !D * !SE * SI)**	0.00128	0.00147	0.00214
SDFFNSX2H7L	**SN**	**(CKN * !D * !SE * !SI)**	0.00165	0.00183	0.00249
	SN	**(CKN * !D * !SE * !SI)**	-0.00026	-0.00004	-0.00001
	SN	**(CKN * !D * !SE * !SI)**	0.00004	0.00004	0.00005
	SN	**(CKN * !D * !SE * !SI)**	0.00129	0.00147	0.00214
	SN	**(!CKN * D * SE * SI)**	0.00225	0.00243	0.00326
	SN	**(!CKN * D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * D * SE * SI)**	0.00001	0.00001	0.00002
	SN	**(!CKN * D * SE * SI)**	0.00195	0.00213	0.00295
	SN	**(!CKN * D * SE * !SI)**	0.00229	0.00247	0.00329
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00002	-0.00000
	SN	**(!CKN * D * SE * !SI)**	0.00001	0.00001	0.00002
	SN	**(!CKN * D * SE * !SI)**	0.00197	0.00216	0.00299
	SN	**(!CKN * D * !SE * SI)**	0.00225	0.00243	0.00326
	SN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00001	0.00001
	SN	**(!CKN * D * !SE * SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00195	0.00213	0.00296
	SN	**(!CKN * D * !SE * !SI)**	0.00225	0.00243	0.00326
	SN	**(!CKN * D * !SE * !SI)**	-0.00005	-0.00002	0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00194	0.00213	0.00296
	SN	**(!CKN * !D * SE * SI)**	0.00225	0.00243	0.00326
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00001	0.00001	0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00195	0.00213	0.00295
	SN	**(!CKN * !D * SE * !SI)**	0.00229	0.00247	0.00329
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00198	0.00216	0.00299
	SN	**(!CKN * !D * !SE * SI)**	0.00229	0.00247	0.00329
	SN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00002	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00198	0.00216	0.00299
	SN	**(!CKN * !D * !SE * !SI)**	0.00229	0.00247	0.00329
	SN	**(!CKN * !D * !SE * !SI)**	-0.00004	-0.00002	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00198	0.00216	0.00299

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7L	CKN	(SE * SN)	0.00240	0.00263	0.00338
	CKN	(SE * SN)	0.00002	0.00002	0.00004
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00216	0.00238	0.00312
	CKN	(!SE * SN)	0.00242	0.00263	0.00338
	CKN	(!SE * SN)	0.00000	0.00002	0.00004
	CKN	(!SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(!SE * SN)	0.00214	0.00238	0.00313

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7L	CKN	(SE * SN)	0.00240	0.00263	0.00338
	CKN	(SE * SN)	0.00000	0.00002	0.00005
	CKN	(SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(SE * SN)	0.00215	0.00238	0.00313
	CKN	(!SE * SN)	0.00240	0.00263	0.00338
	CKN	(!SE * SN)	0.00000	0.00002	0.00005
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00002
	CKN	(!SE * SN)	0.00215	0.00238	0.00313

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00256	0.00279	0.00351
	CKN	**(SE * SN)**	-0.00002	-0.00002	0.00000
	CKN	**(SE * SN)**	-0.00001	0.00001	0.00003
	CKN	**(SE * SN)**	0.00221	0.00244	0.00316
	CKN	**(!SE * SN)**	0.00256	0.00279	0.00351
	CKN	**(!SE * SN)**	-0.00002	-0.00002	0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00219	0.00244	0.00316
	SN	**(CKN * D * SE * SI)**	0.00157	0.00173	0.00240
	SN	**(CKN * D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * D * SE * SI)**	-0.00000	0.00003	0.00005
	SN	**(CKN * D * SE * SI)**	0.00123	0.00140	0.00207
	SN	**(CKN * D * SE * !SI)**	0.00166	0.00182	0.00249
	SN	**(CKN * D * SE * !SI)**	-0.00006	-0.00003	-0.00001
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00130	0.00146	0.00213
	SN	**(CKN * D * !SE * SI)**	0.00157	0.00173	0.00240
	SN	**(CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * D * !SE * SI)**	0.00002	0.00003	0.00005
	SN	**(CKN * D * !SE * SI)**	0.00123	0.00140	0.00207
	SN	**(CKN * D * !SE * !SI)**	0.00157	0.00173	0.00240
	SN	**(CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CKN * D * !SE * !SI)**	0.00002	0.00003	0.00005
	SN	**(CKN * D * !SE * !SI)**	0.00123	0.00140	0.00207
	SN	**(CKN * !D * SE * SI)**	0.00157	0.00173	0.00240
	SN	**(CKN * !D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00005
	SN	**(CKN * !D * SE * SI)**	0.00123	0.00140	0.00207
	SN	**(CKN * !D * SE * !SI)**	0.00166	0.00182	0.00249
	SN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00003	-0.00002
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00130	0.00146	0.00213
	SN	**(CKN * !D * !SE * SI)**	0.00166	0.00182	0.00249
	SN	**(CKN * !D * !SE * SI)**	-0.00006	-0.00003	0.00000
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * !SE * SI)**	0.00130	0.00147	0.00213
SDFFNSX2H7L	**SN**	**(CKN * !D * !SE * !SI)**	0.00166	0.00182	0.00249
	SN	**(CKN * !D * !SE * !SI)**	-0.00006	-0.00003	0.00000
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00130	0.00147	0.00213
	SN	**(!CKN * D * SE * SI)**	0.00225	0.00244	0.00348
	SN	**(!CKN * D * SE * SI)**	-0.00003	-0.00000	0.00055
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00116	0.05606
	SN	**(!CKN * D * SE * SI)**	-0.05016	0.00104	0.00283
	SN	**(!CKN * D * SE * !SI)**	0.00229	0.00246	0.00324
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	0.00004
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00002	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00198	0.00216	0.00299
	SN	**(!CKN * D * !SE * SI)**	0.00226	0.00243	0.00325
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00002	0.00001
	SN	**(!CKN * D * !SE * SI)**	-0.00000	0.00001	0.00003
	SN	**(!CKN * D * !SE * SI)**	0.00195	0.00213	0.00295
	SN	**(!CKN * D * !SE * !SI)**	0.00226	0.00243	0.00325
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00002	0.00001
	SN	**(!CKN * D * !SE * !SI)**	-0.00000	0.00001	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00195	0.00213	0.00295
	SN	**(!CKN * !D * SE * SI)**	0.00225	0.00244	0.00354
	SN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00000	0.00056
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00115	0.05591
	SN	**(!CKN * !D * SE * SI)**	-0.04989	0.00105	0.00283
	SN	**(!CKN * !D * SE * !SI)**	0.00229	0.00246	0.00324
	SN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00001	0.00004
	SN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00002	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00198	0.00216	0.00299
	SN	**(!CKN * !D * !SE * SI)**	0.00229	0.00246	0.00324
	SN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00002	0.00004
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00198	0.00216	0.00299
	SN	**(!CKN * !D * !SE * !SI)**	0.00229	0.00247	0.00324
	SN	**(!CKN * !D * !SE * !SI)**	-0.00011	-0.00002	0.00004
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00006
	SN	**(!CKN * !D * !SE * !SI)**	0.00194	0.00216	0.00299

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00311	0.00347	0.00468
	-0.00002	-0.00001	0.00000
	-0.00002	-0.00002	-0.00001
	0.00372	0.00408	0.00529

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00383	0.00418	0.00543
	0.00000	0.00001	0.00002
	0.00002	0.00002	0.00002
	0.00317	0.00353	0.00477

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00164	0.00182	0.00245
	0.00008	0.00008	0.00009
	-0.00010	-0.00009	-0.00009
	0.00257	0.00274	0.00338

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00247	0.00266	0.00338
	-0.00009	-0.00008	-0.00008
	0.00009	0.00009	0.00010
	0.00153	0.00173	0.00245

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00132	0.00194	0.00404
	0.00007	0.00008	0.00009
	-0.00010	-0.00009	-0.00009
	0.00296	0.00357	0.00566

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00306	0.00374	0.00603
	-0.00009	-0.00008	-0.00006
	0.00009	0.00009	0.00010
	0.00142	0.00212	0.00441

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00145	0.00161	0.00221
	0.00007	0.00008	0.00008
	-0.00009	-0.00009	-0.00009
	0.00243	0.00259	0.00320

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00268	0.00287	0.00355
	-0.00008	-0.00008	-0.00007
	0.00009	0.00009	0.00010
	0.00170	0.00188	0.00257

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00054	0.00054	0.00055
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00121	0.00122	0.00122

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7L	0.00019	0.00020	0.00021
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00029	-0.00028	-0.00026

SDFFNX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX0P5H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX0P5H7L	0.00103	0.00070	0.00194	0.00077	0.06295	0.06316

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX0P5H7L	0.00000	7.36468	10.60480

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7L	CKN->Q (FR)	SE	0.06445	0.21823	0.59093
	CKN->Q (FR)	!SE	0.06445	0.21823	0.59105

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7L	CKN->Q (FF)	SE	0.10261	0.22574	0.50343
	CKN->Q (FF)	!SE	0.10262	0.22575	0.50346

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7L	CKN->QN (FR)	SE	0.12718	0.27670	0.64543
	CKN->QN (FR)	!SE	0.12718	0.27671	0.64544

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7L	CKN->QN (FF)	SE	0.08645	0.20369	0.48041
	CKN->QN (FF)	!SE	0.08645	0.20369	0.48041

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	**hold**	**CKN (F)**	-0.05838	0.00609	0.09135
	setup	**CKN (F)**	-0.06420	0.02343	0.09514

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	**hold**	**CKN (F)**	-0.15483	-0.05502	0.02243
	setup	**CKN (F)**	-0.01192	0.07117	0.18338

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	**hold**	**CKN (F)**	-0.03474	0.01747	0.10093
	setup	**CKN (F)**	0.00513	0.05857	0.09499

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	**hold**	**CKN (F)**	-0.11985	-0.02012	0.07935
	setup	**CKN (F)**	-0.02202	0.05925	0.16136

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	hold	CKN (F)	-0.05671	0.00787	0.09276
	setup	CKN (F)	-0.06701	0.02166	0.09110

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7L	hold	CKN (F)	-0.16146	-0.06055	0.01724
	setup	CKN (F)	-0.00774	0.07782	0.19215

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7L	CKN	SE	0.00212	0.00235	0.00303
	CKN	SE	0.00001	0.00004	0.00006
	CKN	SE	-0.00004	-0.00003	0.00000
	CKN	SE	0.00186	0.00207	0.00278
	CKN	!SE	0.00212	0.00235	0.00304
	CKN	!SE	0.00001	0.00004	0.00006
	CKN	!SE	-0.00004	-0.00003	0.00000
	CKN	!SE	0.00184	0.00208	0.00279

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7L	CKN	SE	0.00242	0.00259	0.00319
	CKN	SE	-0.00003	-0.00002	-0.00001
	CKN	SE	0.00002	0.00004	0.00005
	CKN	SE	0.00202	0.00219	0.00282
	CKN	!SE	0.00241	0.00259	0.00319
	CKN	!SE	-0.00003	-0.00002	-0.00000
	CKN	!SE	0.00002	0.00004	0.00005
	CKN	!SE	0.00203	0.00220	0.00282

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7L	CKN	SE	0.00242	0.00259	0.00319
	CKN	SE	-0.00003	-0.00002	0.00000
	CKN	SE	0.00003	0.00004	0.00006
	CKN	SE	0.00201	0.00220	0.00280
	CKN	!SE	0.00242	0.00259	0.00319
	CKN	!SE	-0.00002	-0.00002	-0.00000
	CKN	!SE	0.00002	0.00004	0.00006
	CKN	!SE	0.00201	0.00220	0.00280

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7L	CKN	SE	0.00213	0.00234	0.00302
	CKN	SE	0.00002	0.00003	0.00006
	CKN	SE	-0.00004	-0.00002	-0.00000
	CKN	SE	0.00185	0.00207	0.00275
	CKN	!SE	0.00212	0.00234	0.00303
	CKN	!SE	0.00002	0.00003	0.00006
	CKN	!SE	-0.00004	-0.00003	-0.00000
	CKN	!SE	0.00185	0.00207	0.00277

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00327	0.00360	0.00478
	-0.00001	-0.00000	0.00001
	-0.00002	-0.00002	-0.00001
	0.00394	0.00427	0.00545

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00243	0.00277	0.00396
	-0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00175	0.00209	0.00328

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00175	0.00192	0.00255
	0.00010	0.00010	0.00011
	-0.00011	-0.00011	-0.00011
	0.00266	0.00283	0.00346

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00213	0.00233	0.00306
	-0.00011	-0.00010	-0.00010
	0.00011	0.00011	0.00011
	0.00122	0.00142	0.00215

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00130	0.00192	0.00402
	0.00010	0.00010	0.00010
	-0.00011	-0.00011	-0.00010
	0.00288	0.00349	0.00560

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00267	0.00338	0.00570
	-0.00010	-0.00010	-0.00009
	0.00010	0.00011	0.00011
	0.00112	0.00180	0.00413

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00143	0.00159	0.00219
	0.00009	0.00010	0.00011
	-0.00011	-0.00011	-0.00011
	0.00232	0.00248	0.00309

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7L	0.00247	0.00265	0.00334
	-0.00011	-0.00010	-0.00009
	0.00011	0.00011	0.00011
	0.00157	0.00176	0.00245

SDFFNX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX1H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX1H7L	0.00101	0.00070	0.00193	0.00076	0.07452	0.07481

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX1H7L	0.00000	7.79885	10.87010

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7L	CKN->Q (FR)	0.06379	0.21799	0.59105

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7L	CKN->Q (FF)	0.10132	0.22552	0.50532

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7L	CKN->QN (FR)	0.12617	0.27618	0.64611

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7L	CKN->QN (FF)	0.08625	0.20430	0.48264

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	**hold**	**CKN (F)**	-0.05643	0.00750	0.09518
	setup	**CKN (F)**	-0.06822	0.02286	0.09509

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	**hold**	**CKN (F)**	-0.15418	-0.05445	0.02295
	setup	**CKN (F)**	-0.01336	0.07172	0.18516

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	**hold**	**CKN (F)**	-0.03495	0.01876	0.10116
	setup	**CKN (F)**	0.00088	0.05881	0.09499

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	**hold**	**CKN (F)**	-0.12159	-0.01919	0.08076
	setup	**CKN (F)**	-0.02699	0.05885	0.16348

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	hold	CKN (F)	-0.05702	0.00891	0.09519
	setup	CKN (F)	-0.06872	0.02105	0.09282

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7L	hold	CKN (F)	-0.16276	-0.06029	0.01952
	setup	CKN (F)	-0.00598	0.07851	0.19490

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7L	CKN	0.00219	0.00243	0.00311
	CKN	0.00000	0.00003	0.00007
	CKN	-0.00004	-0.00003	0.00001
	CKN	0.00193	0.00216	0.00285

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7L	CKN	0.00249	0.00266	0.00326
	CKN	-0.00003	-0.00002	-0.00000
	CKN	0.00003	0.00004	0.00006
	CKN	0.00209	0.00228	0.00287

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7L	CKN	0.00248	0.00267	0.00327
	CKN	-0.00002	-0.00002	0.00001
	CKN	0.00003	0.00005	0.00007
	CKN	0.00210	0.00228	0.00290

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7L	CKN	0.00221	0.00242	0.00311
	CKN	0.00002	0.00004	0.00004
	CKN	-0.00003	-0.00003	-0.00001
	CKN	0.00195	0.00216	0.00285

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(D * SE * SI)**	0.00341	0.00374	0.00491
	(D * SE * SI)	-0.00001	-0.00001	0.00000
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00406	0.00439	0.00556
	(D * SE * !SI)	0.00288	0.00321	0.00438
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00001	0.00000	0.00001
	(D * SE * !SI)	0.00355	0.00386	0.00503
	(D * !SE * SI)	0.00341	0.00374	0.00491
	(D * !SE * SI)	-0.00001	-0.00001	0.00000
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00406	0.00439	0.00556
	(D * !SE * !SI)	0.00341	0.00374	0.00491
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00406	0.00439	0.00556
	(!D * SE * SI)	0.00341	0.00374	0.00491
	(!D * SE * SI)	-0.00001	-0.00001	0.00000
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00406	0.00439	0.00556
	(!D * SE * !SI)	0.00288	0.00321	0.00438
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00001	0.00000	0.00001
	(!D * SE * !SI)	0.00354	0.00386	0.00503
	(!D * !SE * SI)	0.00290	0.00322	0.00439
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00001	0.00002
	(!D * !SE * SI)	0.00352	0.00386	0.00503
	(!D * !SE * !SI)	0.00289	0.00321	0.00439
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00352	0.00385	0.00503

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(D * SE * SI)**	0.00232	0.00265	0.00382
	(D * SE * SI)	0.00001	0.00002	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00167	0.00201	0.00318
	(D * SE * !SI)	0.00251	0.00284	0.00401
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00001	0.00002	0.00002
	(D * SE * !SI)	0.00183	0.00217	0.00335
	(D * !SE * SI)	0.00232	0.00265	0.00382
	(D * !SE * SI)	0.00001	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00167	0.00201	0.00318
	(D * !SE * !SI)	0.00232	0.00265	0.00382
	(D * !SE * !SI)	0.00001	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00167	0.00201	0.00318
	(!D * SE * SI)	0.00232	0.00265	0.00382
	(!D * SE * SI)	0.00001	0.00002	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00167	0.00201	0.00318
	(!D * SE * !SI)	0.00251	0.00284	0.00401
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00001	0.00002	0.00002
	(!D * SE * !SI)	0.00183	0.00217	0.00334
	(!D * !SE * SI)	0.00251	0.00284	0.00401
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00183	0.00217	0.00335
	(!D * !SE * !SI)	0.00251	0.00284	0.00401
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !SE * !SI)	0.00183	0.00217	0.00335

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(CKN * SE * SI)**	-0.00011	-0.00011	-0.00009
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00028	0.00028	0.00029
	(CKN * SE * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00028	0.00029	0.00029
	(CKN * !SE * SI)	0.00182	0.00199	0.00263
	(CKN * !SE * SI)	0.00009	0.00010	0.00011
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00273	0.00290	0.00353
	(CKN * !SE * !SI)	0.00182	0.00199	0.00263
	(CKN * !SE * !SI)	0.00009	0.00010	0.00010
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * !SI)	0.00273	0.00290	0.00354
	(!CKN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	0.00028	0.00029	0.00030
	(!CKN * SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00029	0.00029	0.00029
	(!CKN * !SE * SI)	0.00029	0.00046	0.00107
	(!CKN * !SE * SI)	0.00010	0.00010	0.00011
	(!CKN * !SE * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * SI)	0.00127	0.00143	0.00203
	(!CKN * !SE * !SI)	0.00029	0.00046	0.00107
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00011
	(!CKN * !SE * !SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * !SI)	0.00126	0.00143	0.00203

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(CKN * SE * SI)**	0.00013	0.00013	0.00013
	(CKN * SE * SI)	0.00000	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00027	-0.00027	-0.00026
	(CKN * SE * !SI)	0.00012	0.00013	0.00014
	(CKN * SE * !SI)	0.00000	0.00001	0.00001
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00027	-0.00026	-0.00026
	(CKN * !SE * SI)	0.00217	0.00237	0.00310
	(CKN * !SE * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !SE * SI)	0.00011	0.00011	0.00011
	(CKN * !SE * SI)	0.00125	0.00146	0.00219
	(CKN * !SE * !SI)	0.00217	0.00237	0.00310
	(CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CKN * !SE * !SI)	0.00011	0.00011	0.00011
	(CKN * !SE * !SI)	0.00125	0.00145	0.00219
	(!CKN * SE * SI)	0.00013	0.00013	0.00013
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	-0.00027	-0.00026	-0.00026
	(!CKN * SE * !SI)	0.00013	0.00013	0.00014
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(!CKN * !SE * SI)	0.00109	0.00127	0.00195
	(!CKN * !SE * SI)	-0.00011	-0.00010	-0.00010
	(!CKN * !SE * SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * SI)	0.00012	0.00030	0.00098
	(!CKN * !SE * !SI)	0.00109	0.00127	0.00195
	(!CKN * !SE * !SI)	-0.00011	-0.00010	-0.00010
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * !SI)	0.00011	0.00030	0.00098

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(CKN * D * SI)**	-0.00011	0.00022	0.00137
	(CKN * D * SI)	0.00002	0.00002	0.00002
	(CKN * D * SI)	-0.00003	-0.00002	-0.00001
	(CKN * D * SI)	0.00106	0.00140	0.00255
	(CKN * D * !SI)	0.00224	0.00258	0.00375
	(CKN * D * !SI)	-0.00007	-0.00006	-0.00005
	(CKN * D * !SI)	0.00007	0.00007	0.00008
	(CKN * D * !SI)	0.00303	0.00336	0.00452
	(CKN * !D * SI)	0.00136	0.00199	0.00410
	(CKN * !D * SI)	0.00010	0.00010	0.00010
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SI)	0.00294	0.00356	0.00568
	(CKN * !D * !SI)	-0.00003	0.00032	0.00147
	(CKN * !D * !SI)	0.00000	0.00002	0.00003
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00115	0.00150	0.00265
	(!CKN * D * SI)	-0.00012	0.00022	0.00137
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(!CKN * D * SI)	0.00106	0.00140	0.00255
	(!CKN * D * !SI)	0.00117	0.00151	0.00267
	(!CKN * D * !SI)	-0.00007	-0.00006	-0.00005
	(!CKN * D * !SI)	0.00006	0.00007	0.00008
	(!CKN * D * !SI)	0.00189	0.00222	0.00336
	(!CKN * !D * SI)	-0.00017	0.00046	0.00259
	(!CKN * !D * SI)	0.00010	0.00010	0.00010
	(!CKN * !D * SI)	-0.00010	-0.00010	-0.00009
	(!CKN * !D * SI)	0.00144	0.00209	0.00422
	(!CKN * !D * !SI)	-0.00003	0.00032	0.00148
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00115	0.00150	0.00266

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(CKN * D * SI)**	0.00107	0.00145	0.00272
	(CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(CKN * D * SI)	0.00001	0.00002	0.00003
	(CKN * D * SI)	-0.00010	0.00028	0.00154
	(CKN * D * !SI)	0.00302	0.00343	0.00475
	(CKN * D * !SI)	0.00005	0.00006	0.00007
	(CKN * D * !SI)	-0.00007	-0.00007	-0.00006
	(CKN * D * !SI)	0.00224	0.00265	0.00399
	(CKN * !D * SI)	0.00271	0.00341	0.00574
	(CKN * !D * SI)	-0.00010	-0.00010	-0.00009
	(CKN * !D * SI)	0.00009	0.00010	0.00011
	(CKN * !D * SI)	0.00115	0.00184	0.00417
	(CKN * !D * !SI)	0.00097	0.00135	0.00261
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00000
	(CKN * !D * !SI)	0.00001	0.00002	0.00002
	(CKN * !D * !SI)	-0.00021	0.00017	0.00143
	(!CKN * D * SI)	0.00106	0.00145	0.00272
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * D * SI)	0.00000	0.00002	0.00002
	(!CKN * D * SI)	-0.00011	0.00028	0.00154
	(!CKN * D * !SI)	0.00152	0.00191	0.00321
	(!CKN * D * !SI)	0.00005	0.00006	0.00008
	(!CKN * D * !SI)	-0.00006	-0.00006	-0.00006
	(!CKN * D * !SI)	0.00081	0.00120	0.00254
	(!CKN * !D * SI)	0.00162	0.00232	0.00465
	(!CKN * !D * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SI)	0.00009	0.00010	0.00010
	(!CKN * !D * SI)	-0.00001	0.00070	0.00302
	(!CKN * !D * !SI)	0.00096	0.00135	0.00261
	(!CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00021	0.00017	0.00144

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

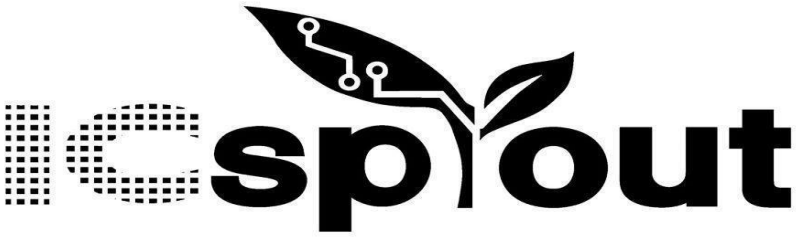
SDFFNX1H7L	**(CKN * D * SE)**	0.00148	0.00165	0.00227
	(CKN * D * SE)	0.00009	0.00010	0.00010
	(CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * D * SE)	0.00238	0.00255	0.00316
	(CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00021	0.00022	0.00023
	(CKN * !D * SE)	0.00149	0.00165	0.00227
	(CKN * !D * SE)	0.00009	0.00010	0.00010
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * !D * SE)	0.00239	0.00255	0.00316
	(CKN * !D * !SE)	-0.00018	-0.00018	-0.00017
	(CKN * !D * !SE)	-0.00001	-0.00001	0.00000
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00021	0.00021	0.00021
	(!CKN * D * SE)	-0.00004	0.00012	0.00070
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * D * SE)	0.00091	0.00107	0.00165
	(!CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00022	0.00022	0.00023
	(!CKN * !D * SE)	-0.00004	0.00012	0.00070
	(!CKN * !D * SE)	0.00009	0.00010	0.00010
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SE)	0.00091	0.00107	0.00165
	(!CKN * !D * !SE)	-0.00018	-0.00018	-0.00017
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00021	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7L	**(CKN * D * SE)**	0.00250	0.00269	0.00339
	(CKN * D * SE)	-0.00010	-0.00010	-0.00009
	(CKN * D * SE)	0.00011	0.00011	0.00011
	(CKN * D * SE)	0.00161	0.00180	0.00250
	(CKN * D * !SE)	0.00018	0.00018	0.00019
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00020	-0.00020	-0.00019
	(CKN * !D * SE)	0.00251	0.00269	0.00339
	(CKN * !D * SE)	-0.00010	-0.00009	-0.00009
	(CKN * !D * SE)	0.00011	0.00011	0.00011
	(CKN * !D * SE)	0.00160	0.00180	0.00250
	(CKN * !D * !SE)	0.00019	0.00020	0.00021
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00019	-0.00019	-0.00018
	(!CKN * D * SE)	0.00141	0.00158	0.00222
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	0.00046	0.00063	0.00127
	(!CKN * D * !SE)	0.00018	0.00018	0.00019
	(!CKN * D * !SE)	0.00000	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00020	-0.00020	-0.00020
	(!CKN * !D * SE)	0.00141	0.00158	0.00222
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00009
	(!CKN * !D * SE)	0.00010	0.00010	0.00010
	(!CKN * !D * SE)	0.00046	0.00063	0.00127
	(!CKN * !D * !SE)	0.00020	0.00020	0.00022
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00019	-0.00018	-0.00018

SDFFNX2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX2H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX2H7L	0.00103	0.00069	0.00195	0.00077	0.08604	0.08739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX2H7L	0.00000	8.08112	11.16710

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7L	CKN->Q (FR)	0.06201	0.21615	0.58878

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7L	CKN->Q (FF)	0.09601	0.21996	0.49931

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7L	CKN->QN (FR)	0.12149	0.27258	0.64575

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7L	CKN->QN (FF)	0.08561	0.20465	0.48511

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	**hold**	**CKN (F)**	-0.06000	0.00539	0.09037
	setup	**CKN (F)**	-0.06549	0.02283	0.09343

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	**hold**	**CKN (F)**	-0.15327	-0.05464	0.02253
	setup	**CKN (F)**	-0.01321	0.07154	0.18215

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	**hold**	**CKN (F)**	-0.03860	0.01636	0.09993
	setup	**CKN (F)**	0.00273	0.05880	0.09462

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	**hold**	**CKN (F)**	-0.12160	-0.02095	0.07912
	setup	**CKN (F)**	-0.02555	0.05909	0.16000

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	hold	CKN (F)	-0.05736	0.00668	0.09560
	setup	CKN (F)	-0.06683	0.02149	0.09153

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7L	hold	CKN (F)	-0.16318	-0.06047	0.01904
	setup	CKN (F)	-0.00577	0.07842	0.19490

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7L	CKN	0.00223	0.00246	0.00315
	CKN	0.00001	0.00004	0.00007
	CKN	-0.00004	-0.00003	-0.00000
	CKN	0.00196	0.00219	0.00292

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7L	CKN	0.00249	0.00268	0.00329
	CKN	-0.00003	-0.00002	0.00001
	CKN	0.00002	0.00005	0.00007
	CKN	0.00210	0.00228	0.00290

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7L	CKN	0.00251	0.00268	0.00331
	CKN	-0.00003	-0.00002	-0.00000
	CKN	0.00005	0.00005	0.00007
	CKN	0.00209	0.00228	0.00293

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7L	CKN	0.00223	0.00245	0.00315
	CKN	0.00002	0.00004	0.00005
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00197	0.00219	0.00288

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(D * SE * SI)**	0.00331	0.00364	0.00482
	(D * SE * SI)	-0.00002	-0.00001	-0.00000
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00398	0.00431	0.00549
	(D * SE * !SI)	0.00287	0.00320	0.00437
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00351	0.00385	0.00503
	(D * !SE * SI)	0.00330	0.00364	0.00482
	(D * !SE * SI)	-0.00003	-0.00001	0.00000
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00397	0.00431	0.00549
	(D * !SE * !SI)	0.00330	0.00364	0.00482
	(D * !SE * !SI)	-0.00003	-0.00001	0.00000
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00397	0.00431	0.00549
	(!D * SE * SI)	0.00331	0.00364	0.00482
	(!D * SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00398	0.00431	0.00549
	(!D * SE * !SI)	0.00287	0.00320	0.00437
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00351	0.00385	0.00503
	(!D * !SE * SI)	0.00287	0.00320	0.00437
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00352	0.00385	0.00503
	(!D * !SE * !SI)	0.00287	0.00320	0.00437
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00351	0.00385	0.00503

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(D * SE * SI)**	0.00225	0.00259	0.00378
	(D * SE * SI)	0.00002	0.00002	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00161	0.00195	0.00313
	(D * SE * !SI)	0.00244	0.00277	0.00395
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00002	0.00002
	(D * SE * !SI)	0.00174	0.00208	0.00327
	(D * !SE * SI)	0.00225	0.00260	0.00378
	(D * !SE * SI)	0.00001	0.00002	0.00003
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00161	0.00195	0.00313
	(D * !SE * !SI)	0.00225	0.00260	0.00378
	(D * !SE * !SI)	0.00001	0.00002	0.00003
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00161	0.00195	0.00313
	(!D * SE * SI)	0.00225	0.00259	0.00378
	(!D * SE * SI)	0.00002	0.00002	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00161	0.00195	0.00313
	(!D * SE * !SI)	0.00244	0.00277	0.00395
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00002	0.00002	0.00002
	(!D * SE * !SI)	0.00174	0.00208	0.00326
	(!D * !SE * SI)	0.00244	0.00277	0.00395
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00002	0.00002
	(!D * !SE * SI)	0.00174	0.00208	0.00327
	(!D * !SE * !SI)	0.00244	0.00277	0.00395
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00002
	(!D * !SE * !SI)	0.00174	0.00208	0.00327

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * SE * SI)**	-0.00011	-0.00011	-0.00009
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00028	0.00029	0.00030
	(CKN * SE * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * SE * !SI)	-0.00001	-0.00001	0.00000
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00029	0.00029	0.00029
	(CKN * !SE * SI)	0.00185	0.00203	0.00268
	(CKN * !SE * SI)	0.00009	0.00009	0.00009
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00276	0.00294	0.00359
	(CKN * !SE * !SI)	0.00185	0.00203	0.00268
	(CKN * !SE * !SI)	0.00009	0.00010	0.00010
	(CKN * !SE * !SI)	-0.00012	-0.00011	-0.00011
	(CKN * !SE * !SI)	0.00276	0.00294	0.00359
	(!CKN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * SE * SI)	0.00001	0.00001	0.00002
	(!CKN * SE * SI)	0.00028	0.00029	0.00029
	(!CKN * SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00029	0.00029	0.00029
	(!CKN * !SE * SI)	0.00030	0.00046	0.00107
	(!CKN * !SE * SI)	0.00010	0.00011	0.00011
	(!CKN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(!CKN * !SE * SI)	0.00127	0.00144	0.00204
	(!CKN * !SE * !SI)	0.00030	0.00046	0.00107
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00011
	(!CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(!CKN * !SE * !SI)	0.00127	0.00144	0.00204

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * SE * SI)**	0.00013	0.00013	0.00013
	(CKN * SE * SI)	0.00000	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00027	-0.00027	-0.00026
	(CKN * SE * !SI)	0.00012	0.00013	0.00014
	(CKN * SE * !SI)	0.00000	0.00001	0.00001
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00027	-0.00026	-0.00026
	(CKN * !SE * SI)	0.00224	0.00244	0.00318
	(CKN * !SE * SI)	-0.00009	-0.00009	-0.00009
	(CKN * !SE * SI)	0.00011	0.00011	0.00011
	(CKN * !SE * SI)	0.00131	0.00152	0.00227
	(CKN * !SE * !SI)	0.00224	0.00244	0.00319
	(CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CKN * !SE * !SI)	0.00011	0.00011	0.00012
	(CKN * !SE * !SI)	0.00131	0.00152	0.00227
	(!CKN * SE * SI)	0.00013	0.00013	0.00013
	(!CKN * SE * SI)	0.00000	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00027	-0.00027	-0.00026
	(!CKN * SE * !SI)	0.00013	0.00013	0.00014
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(!CKN * !SE * SI)	0.00110	0.00128	0.00196
	(!CKN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(!CKN * !SE * SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * SI)	0.00012	0.00030	0.00097
	(!CKN * !SE * !SI)	0.00110	0.00128	0.00195
	(!CKN * !SE * !SI)	-0.00011	-0.00010	-0.00010
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * !SI)	0.00011	0.00030	0.00097

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * D * SI)**	-0.00011	0.00022	0.00137
	(CKN * D * SI)	0.00002	0.00002	0.00003
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00106	0.00140	0.00255
	(CKN * D * !SI)	0.00231	0.00265	0.00381
	(CKN * D * !SI)	-0.00007	-0.00005	-0.00005
	(CKN * D * !SI)	0.00007	0.00007	0.00008
	(CKN * D * !SI)	0.00309	0.00342	0.00458
	(CKN * !D * SI)	0.00139	0.00202	0.00416
	(CKN * !D * SI)	0.00009	0.00009	0.00010
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SI)	0.00295	0.00359	0.00573
	(CKN * !D * !SI)	-0.00003	0.00032	0.00147
	(CKN * !D * !SI)	0.00000	0.00002	0.00002
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00114	0.00149	0.00265
	(!CKN * D * SI)	-0.00012	0.00022	0.00137
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(!CKN * D * SI)	0.00106	0.00140	0.00255
	(!CKN * D * !SI)	0.00118	0.00152	0.00268
	(!CKN * D * !SI)	-0.00006	-0.00006	-0.00006
	(!CKN * D * !SI)	0.00006	0.00006	0.00008
	(!CKN * D * !SI)	0.00189	0.00222	0.00336
	(!CKN * !D * SI)	-0.00018	0.00046	0.00259
	(!CKN * !D * SI)	0.00009	0.00010	0.00011
	(!CKN * !D * SI)	-0.00011	-0.00010	-0.00008
	(!CKN * !D * SI)	0.00145	0.00210	0.00423
	(!CKN * !D * !SI)	-0.00003	0.00031	0.00147
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00114	0.00149	0.00265

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * D * SI)**	0.00106	0.00145	0.00272
	(CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00011	0.00028	0.00154
	(CKN * D * !SI)	0.00306	0.00346	0.00478
	(CKN * D * !SI)	0.00005	0.00006	0.00007
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * D * !SI)	0.00228	0.00269	0.00403
	(CKN * !D * SI)	0.00275	0.00347	0.00584
	(CKN * !D * SI)	-0.00009	-0.00009	-0.00007
	(CKN * !D * SI)	0.00010	0.00011	0.00012
	(CKN * !D * SI)	0.00120	0.00191	0.00427
	(CKN * !D * !SI)	0.00096	0.00135	0.00262
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00000
	(CKN * !D * !SI)	0.00002	0.00002	0.00002
	(CKN * !D * !SI)	-0.00020	0.00018	0.00144
	(!CKN * D * SI)	0.00106	0.00145	0.00272
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * D * SI)	0.00000	0.00002	0.00002
	(!CKN * D * SI)	-0.00011	0.00028	0.00154
	(!CKN * D * !SI)	0.00153	0.00192	0.00322
	(!CKN * D * !SI)	0.00006	0.00006	0.00008
	(!CKN * D * !SI)	-0.00006	-0.00006	-0.00005
	(!CKN * D * !SI)	0.00081	0.00121	0.00256
	(!CKN * !D * SI)	0.00164	0.00234	0.00466
	(!CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(!CKN * !D * SI)	0.00010	0.00010	0.00011
	(!CKN * !D * SI)	-0.00002	0.00070	0.00302
	(!CKN * !D * !SI)	0.00097	0.00136	0.00262
	(!CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00021	0.00018	0.00144

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * D * SE)**	0.00151	0.00169	0.00231
	(CKN * D * SE)	0.00008	0.00009	0.00010
	(CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * D * SE)	0.00242	0.00259	0.00322
	(CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00022	0.00023	0.00024
	(CKN * !D * SE)	0.00151	0.00169	0.00231
	(CKN * !D * SE)	0.00008	0.00009	0.00010
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * !D * SE)	0.00242	0.00259	0.00322
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(CKN * !D * !SE)	-0.00002	-0.00001	-0.00000
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00022	0.00022	0.00022
	(!CKN * D * SE)	-0.00004	0.00012	0.00070
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * D * SE)	0.00093	0.00109	0.00166
	(!CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(!CKN * D * !SE)	-0.00001	-0.00000	-0.00000
	(!CKN * D * !SE)	0.00001	0.00001	0.00002
	(!CKN * D * !SE)	0.00022	0.00023	0.00024
	(!CKN * !D * SE)	-0.00004	0.00012	0.00070
	(!CKN * !D * SE)	0.00010	0.00010	0.00010
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SE)	0.00093	0.00109	0.00167
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7L	**(CKN * D * SE)**	0.00257	0.00277	0.00348
	(CKN * D * SE)	-0.00010	-0.00009	-0.00008
	(CKN * D * SE)	0.00011	0.00011	0.00011
	(CKN * D * SE)	0.00166	0.00186	0.00258
	(CKN * D * !SE)	0.00018	0.00018	0.00018
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00021	-0.00020	-0.00020
	(CKN * !D * SE)	0.00257	0.00276	0.00348
	(CKN * !D * SE)	-0.00010	-0.00009	-0.00008
	(CKN * !D * SE)	0.00011	0.00011	0.00012
	(CKN * !D * SE)	0.00166	0.00186	0.00258
	(CKN * !D * !SE)	0.00019	0.00020	0.00021
	(CKN * !D * !SE)	0.00000	0.00001	0.00002
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00020	-0.00019	-0.00017
	(!CKN * D * SE)	0.00142	0.00160	0.00223
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	0.00045	0.00063	0.00126
	(!CKN * D * !SE)	0.00018	0.00018	0.00018
	(!CKN * D * !SE)	0.00000	0.00000	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00021	-0.00020	-0.00020
	(!CKN * !D * SE)	0.00142	0.00160	0.00223
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SE)	0.00010	0.00010	0.00010
	(!CKN * !D * SE)	0.00045	0.00063	0.00126
	(!CKN * !D * !SE)	0.00019	0.00020	0.00021
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00019	-0.00019	-0.00018

SDFFNX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX3H7L	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX3H7L	0.00110	0.00076	0.00212	0.00078	0.13332	0.13495

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX3H7L	0.00000	9.74075	13.08850

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7L	CKN->Q (FR)	0.06045	0.21571	0.58828

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7L	CKN->Q (FF)	0.09373	0.21952	0.49929

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7L	CKN->QN (FR)	0.12957	0.27836	0.64737

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7L	CKN->QN (FF)	0.09313	0.21250	0.49281

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	**hold**	**CKN (F)**	-0.05622	0.00481	0.08775
	setup	**CKN (F)**	-0.06428	0.02127	0.09129

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	**hold**	**CKN (F)**	-0.14685	-0.05120	0.02345
	setup	**CKN (F)**	-0.01613	0.06713	0.17655

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	**hold**	**CKN (F)**	-0.05064	0.00834	0.09380
	setup	**CKN (F)**	0.00668	0.06049	0.09657

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	**hold**	**CKN (F)**	-0.11504	-0.01886	0.07692
	setup	**CKN (F)**	-0.02544	0.05379	0.14852

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	hold	CKN (F)	-0.06468	-0.00023	0.08598
	setup	CKN (F)	-0.05801	0.02763	0.10068

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7L	hold	CKN (F)	-0.16980	-0.06451	0.00991
	setup	CKN (F)	-0.00275	0.08240	0.19811

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7L	CKN	0.00270	0.00298	0.00381
	CKN	0.00000	0.00004	0.00008
	CKN	-0.00004	-0.00003	-0.00000
	CKN	0.00243	0.00269	0.00352

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7L	CKN	0.00305	0.00327	0.00398
	CKN	-0.00004	-0.00002	-0.00000
	CKN	0.00003	0.00005	0.00007
	CKN	0.00262	0.00284	0.00356

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7L	CKN	0.00305	0.00327	0.00400
	CKN	-0.00002	-0.00002	-0.00002
	CKN	0.00005	0.00005	0.00005
	CKN	0.00262	0.00284	0.00358

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7L	CKN	0.00271	0.00297	0.00381
	CKN	0.00002	0.00004	0.00009
	CKN	-0.00003	-0.00003	0.00001
	CKN	0.00240	0.00268	0.00352

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(D * SE * SI)**	0.00337	0.00377	0.00515
	(D * SE * SI)	-0.00002	-0.00001	0.00000
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00411	0.00450	0.00588
	(D * SE * !SI)	0.00302	0.00340	0.00477
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00370	0.00409	0.00547
	(D * !SE * SI)	0.00336	0.00377	0.00515
	(D * !SE * SI)	-0.00001	-0.00000	0.00001
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00411	0.00450	0.00589
	(D * !SE * !SI)	0.00336	0.00377	0.00515
	(D * !SE * !SI)	-0.00001	-0.00000	0.00001
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00411	0.00450	0.00589
	(!D * SE * SI)	0.00339	0.00377	0.00515
	(!D * SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00411	0.00450	0.00589
	(!D * SE * !SI)	0.00302	0.00340	0.00476
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00370	0.00409	0.00546
	(!D * !SE * SI)	0.00303	0.00340	0.00477
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00001	0.00001	0.00001
	(!D * !SE * SI)	0.00371	0.00409	0.00547
	(!D * !SE * !SI)	0.00301	0.00340	0.00477
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00370	0.00409	0.00547

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(D * SE * SI)**	0.00239	0.00280	0.00419
	(D * SE * SI)	0.00001	0.00002	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00168	0.00209	0.00349
	(D * SE * !SI)	0.00256	0.00295	0.00435
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00002	0.00002
	(D * SE * !SI)	0.00182	0.00221	0.00361
	(D * !SE * SI)	0.00239	0.00280	0.00419
	(D * !SE * SI)	0.00000	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00169	0.00209	0.00349
	(D * !SE * !SI)	0.00239	0.00280	0.00419
	(D * !SE * !SI)	0.00000	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00169	0.00209	0.00349
	(!D * SE * SI)	0.00239	0.00280	0.00419
	(!D * SE * SI)	0.00001	0.00002	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00168	0.00209	0.00349
	(!D * SE * !SI)	0.00256	0.00295	0.00435
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00002	0.00002
	(!D * SE * !SI)	0.00182	0.00221	0.00361
	(!D * !SE * SI)	0.00256	0.00296	0.00435
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00002	0.00002
	(!D * !SE * SI)	0.00182	0.00221	0.00361
	(!D * !SE * !SI)	0.00256	0.00295	0.00435
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00002
	(!D * !SE * !SI)	0.00182	0.00221	0.00361

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(CKN * SE * SI)**	-0.00014	-0.00013	-0.00011
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00030	0.00030	0.00031
	(CKN * SE * !SI)	-0.00014	-0.00013	-0.00011
	(CKN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00000	0.00000	0.00000
	(CKN * SE * !SI)	0.00030	0.00030	0.00031
	(CKN * !SE * SI)	0.00190	0.00210	0.00284
	(CKN * !SE * SI)	0.00011	0.00011	0.00012
	(CKN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(CKN * !SE * SI)	0.00294	0.00314	0.00388
	(CKN * !SE * !SI)	0.00190	0.00210	0.00284
	(CKN * !SE * !SI)	0.00011	0.00011	0.00012
	(CKN * !SE * !SI)	-0.00013	-0.00013	-0.00012
	(CKN * !SE * !SI)	0.00294	0.00314	0.00388
	(!CKN * SE * SI)	-0.00014	-0.00013	-0.00011
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00030	0.00031	0.00032
	(!CKN * SE * !SI)	-0.00013	-0.00013	-0.00012
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00000	0.00000	0.00000
	(!CKN * SE * !SI)	0.00031	0.00031	0.00031
	(!CKN * !SE * SI)	0.00031	0.00051	0.00121
	(!CKN * !SE * SI)	0.00011	0.00012	0.00013
	(!CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * SI)	0.00141	0.00160	0.00230
	(!CKN * !SE * !SI)	0.00031	0.00051	0.00121
	(!CKN * !SE * !SI)	0.00012	0.00012	0.00013
	(!CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * !SI)	0.00142	0.00161	0.00230

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(CKN * SE * SI)**	0.00015	0.00016	0.00016
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00028	-0.00028	-0.00027
	(CKN * SE * !SI)	0.00015	0.00015	0.00016
	(CKN * SE * !SI)	0.00001	0.00001	0.00002
	(CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CKN * SE * !SI)	-0.00028	-0.00028	-0.00026
	(CKN * !SE * SI)	0.00241	0.00265	0.00350
	(CKN * !SE * SI)	-0.00012	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00012	0.00013	0.00013
	(CKN * !SE * SI)	0.00136	0.00160	0.00246
	(CKN * !SE * !SI)	0.00241	0.00265	0.00350
	(CKN * !SE * !SI)	-0.00012	-0.00011	-0.00011
	(CKN * !SE * !SI)	0.00012	0.00013	0.00013
	(CKN * !SE * !SI)	0.00136	0.00160	0.00246
	(!CKN * SE * SI)	0.00016	0.00016	0.00016
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00028	-0.00028	-0.00028
	(!CKN * SE * !SI)	0.00015	0.00016	0.00016
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CKN * SE * !SI)	-0.00028	-0.00027	-0.00026
	(!CKN * !SE * SI)	0.00123	0.00144	0.00222
	(!CKN * !SE * SI)	-0.00013	-0.00012	-0.00011
	(!CKN * !SE * SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * SI)	0.00013	0.00034	0.00112
	(!CKN * !SE * !SI)	0.00123	0.00144	0.00222
	(!CKN * !SE * !SI)	-0.00013	-0.00012	-0.00012
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * !SI)	0.00013	0.00034	0.00112

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(CKN * D * SI)**	-0.00013	0.00026	0.00160
	(CKN * D * SI)	0.00002	0.00002	0.00003
	(CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(CKN * D * SI)	0.00113	0.00154	0.00288
	(CKN * D * !SI)	0.00244	0.00283	0.00419
	(CKN * D * !SI)	-0.00006	-0.00006	-0.00004
	(CKN * D * !SI)	0.00007	0.00008	0.00008
	(CKN * D * !SI)	0.00327	0.00366	0.00501
	(CKN * !D * SI)	0.00140	0.00211	0.00453
	(CKN * !D * SI)	0.00010	0.00011	0.00011
	(CKN * !D * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !D * SI)	0.00312	0.00383	0.00626
	(CKN * !D * !SI)	-0.00007	0.00034	0.00168
	(CKN * !D * !SI)	0.00002	0.00002	0.00003
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00122	0.00162	0.00298
	(!CKN * D * SI)	-0.00014	0.00026	0.00160
	(!CKN * D * SI)	0.00002	0.00002	0.00003
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * D * SI)	0.00113	0.00153	0.00288
	(!CKN * D * !SI)	0.00124	0.00163	0.00298
	(!CKN * D * !SI)	-0.00007	-0.00007	-0.00005
	(!CKN * D * !SI)	0.00005	0.00006	0.00007
	(!CKN * D * !SI)	0.00201	0.00239	0.00371
	(!CKN * !D * SI)	-0.00020	0.00051	0.00291
	(!CKN * !D * SI)	0.00011	0.00012	0.00012
	(!CKN * !D * SI)	-0.00011	-0.00011	-0.00009
	(!CKN * !D * SI)	0.00156	0.00229	0.00470
	(!CKN * !D * !SI)	-0.00007	0.00034	0.00169
	(!CKN * !D * !SI)	0.00001	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00122	0.00162	0.00298

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(CKN * D * SI)**	0.00114	0.00160	0.00308
	(CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(CKN * D * SI)	0.00002	0.00002	0.00003
	(CKN * D * SI)	-0.00012	0.00033	0.00180
	(CKN * D * !SI)	0.00319	0.00367	0.00522
	(CKN * D * !SI)	0.00005	0.00006	0.00008
	(CKN * D * !SI)	-0.00008	-0.00008	-0.00007
	(CKN * D * !SI)	0.00236	0.00285	0.00442
	(CKN * !D * SI)	0.00296	0.00377	0.00642
	(CKN * !D * SI)	-0.00011	-0.00011	-0.00010
	(CKN * !D * SI)	0.00011	0.00012	0.00012
	(CKN * !D * SI)	0.00125	0.00204	0.00469
	(CKN * !D * !SI)	0.00106	0.00152	0.00299
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00002	0.00003	0.00003
	(CKN * !D * !SI)	-0.00022	0.00023	0.00170
	(!CKN * D * SI)	0.00114	0.00160	0.00308
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00012	0.00033	0.00180
	(!CKN * D * !SI)	0.00163	0.00211	0.00363
	(!CKN * D * !SI)	0.00005	0.00007	0.00008
	(!CKN * D * !SI)	-0.00007	-0.00006	-0.00005
	(!CKN * D * !SI)	0.00086	0.00134	0.00291
	(!CKN * !D * SI)	0.00177	0.00257	0.00519
	(!CKN * !D * SI)	-0.00012	-0.00011	-0.00010
	(!CKN * !D * SI)	0.00011	0.00012	0.00012
	(!CKN * !D * SI)	-0.00002	0.00079	0.00340
	(!CKN * !D * !SI)	0.00107	0.00152	0.00299
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00002	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00023	0.00023	0.00170

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7L	**(CKN * D * SE)**	0.00156	0.00173	0.00236
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	-0.00012	-0.00012	-0.00012
	(CKN * D * SE)	0.00250	0.00267	0.00330
	(CKN * D * !SE)	-0.00016	-0.00015	-0.00014
	(CKN * D * !SE)	-0.00001	-0.00000	-0.00000
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00023	0.00023	0.00024
	(CKN * !D * SE)	0.00156	0.00173	0.00236
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	-0.00012	-0.00012	-0.00011
	(CKN * !D * SE)	0.00250	0.00267	0.00330
	(CKN * !D * !SE)	-0.00017	-0.00016	-0.00016
	(CKN * !D * !SE)	-0.00002	-0.00001	-0.00001
	(CKN * !D * !SE)	0.00000	0.00000	0.00000
	(CKN * !D * !SE)	0.00022	0.00022	0.00022
	(!CKN * D * SE)	-0.00004	0.00012	0.00069
	(!CKN * D * SE)	0.00011	0.00011	0.00012
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * D * SE)	0.00096	0.00112	0.00169
	(!CKN * D * !SE)	-0.00016	-0.00015	-0.00014
	(!CKN * D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00023	0.00023	0.00025
	(!CKN * !D * SE)	-0.00003	0.00012	0.00069
	(!CKN * !D * SE)	0.00011	0.00011	0.00011
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * !D * SE)	0.00097	0.00112	0.00169
	(!CKN * !D * !SE)	-0.00017	-0.00016	-0.00016
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00000	0.00000	0.00000
	(!CKN * !D * !SE)	0.00022	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

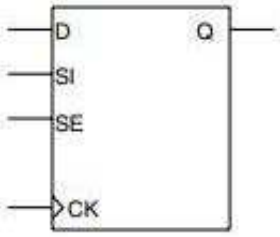
SDFFNX3H7L	**(CKN * D * SE)**	0.00272	0.00292	0.00364
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00012	0.00012	0.00014
	(CKN * D * SE)	0.00177	0.00197	0.00270
	(CKN * D * !SE)	0.00017	0.00017	0.00017
	(CKN * D * !SE)	0.00000	0.00000	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00021	-0.00021	-0.00020
	(CKN * !D * SE)	0.00271	0.00292	0.00364
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00011	0.00012	0.00012
	(CKN * !D * SE)	0.00178	0.00197	0.00270
	(CKN * !D * !SE)	0.00018	0.00019	0.00019
	(CKN * !D * !SE)	0.00001	0.00001	0.00002
	(CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(CKN * !D * !SE)	-0.00020	-0.00019	-0.00017
	(!CKN * D * SE)	0.00150	0.00167	0.00229
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * D * SE)	0.00011	0.00011	0.00011
	(!CKN * D * SE)	0.00050	0.00067	0.00130
	(!CKN * D * !SE)	0.00017	0.00017	0.00017
	(!CKN * D * !SE)	0.00000	0.00000	0.00000
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00021	-0.00021	-0.00020
	(!CKN * !D * SE)	0.00150	0.00167	0.00229
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * !D * SE)	0.00011	0.00011	0.00011
	(!CKN * !D * SE)	0.00050	0.00067	0.00130
	(!CKN * !D * !SE)	0.00018	0.00019	0.00020
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00000	-0.00000	-0.00000
	(!CKN * !D * !SE)	-0.00020	-0.00019	-0.00018

SDFFQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX0P5H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX0P5H7L	0.00092	0.00073	0.00193	0.00077	0.06306

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX0P5H7L	0.00000	6.65718	10.47810

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7L	CK->Q (RR)	SE	0.09202	0.23077	0.55579
	CK->Q (RR)	!SE	0.09204	0.23078	0.55598

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7L	CK->Q (RF)	SE	0.07007	0.17993	0.41791
	CK->Q (RF)	!SE	0.07006	0.17993	0.41790

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	**hold**	**CK (R)**	-0.08017	-0.04380	-0.02165
	setup	**CK (R)**	0.02949	0.05487	0.09366

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	**hold**	**CK (R)**	-0.16915	-0.05738	0.01232
	setup	**CK (R)**	0.02682	0.08647	0.19677

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	**hold**	**CK (R)**	-0.05003	-0.03069	-0.01083
	setup	**CK (R)**	0.05053	0.07623	0.10477

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	**hold**	**CK (R)**	-0.13812	-0.04299	0.02152
	setup	**CK (R)**	0.04269	0.08488	0.17300

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	hold	CK (R)	-0.08350	-0.04591	-0.02020
	setup	CK (R)	0.03105	0.05708	0.09488

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7L	hold	CK (R)	-0.18295	-0.06786	0.00151
	setup	CK (R)	0.03949	0.09725	0.20828

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7L	CK	SE	0.00366	0.00396	0.00507
	CK	SE	0.00001	0.00005	0.00008
	CK	SE	-0.00006	-0.00003	0.00001
	CK	SE	0.00439	0.00469	0.00576
	CK	!SE	0.00366	0.00396	0.00505
	CK	!SE	0.00001	0.00005	0.00009
	CK	!SE	-0.00005	-0.00003	0.00002
	CK	!SE	0.00439	0.00469	0.00576

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7L	CK	SE	0.00384	0.00417	0.00541
	CK	SE	-0.00005	-0.00002	0.00004
	CK	SE	0.00003	0.00006	0.00009
	CK	SE	0.00442	0.00475	0.00599
	CK	!SE	0.00384	0.00417	0.00541
	CK	!SE	-0.00005	-0.00002	0.00004
	CK	!SE	0.00003	0.00006	0.00009
	CK	!SE	0.00441	0.00475	0.00599

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00203	0.00232	0.00336
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00267	0.00296	0.00400

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00416	0.00454	0.00585
	-0.00001	-0.00000	0.00000
	0.00000	0.00001	0.00003
	0.00349	0.00387	0.00518

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00169	0.00187	0.00253
	0.00011	0.00011	0.00012
	-0.00013	-0.00012	-0.00012
	0.00265	0.00284	0.00349

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00238	0.00259	0.00335
	-0.00012	-0.00011	-0.00010
	0.00012	0.00012	0.00013
	0.00142	0.00162	0.00238

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00121	0.00184	0.00396
	0.00010	0.00010	0.00011
	-0.00013	-0.00012	-0.00011
	0.00279	0.00342	0.00555

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00290	0.00360	0.00594
	-0.00010	-0.00010	-0.00010
	0.00012	0.00012	0.00014
	0.00131	0.00202	0.00436

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00135	0.00151	0.00211
	0.00010	0.00010	0.00011
	-0.00012	-0.00012	-0.00012
	0.00226	0.00242	0.00302

Passive power(pJ) for SI falling :

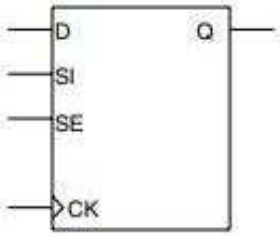
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7L	0.00271	0.00290	0.00358
	-0.00011	-0.00010	-0.00010
	0.00012	0.00012	0.00012
	0.00179	0.00198	0.00267

SDFFQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX1H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX1H7L	0.00093	0.00073	0.00201	0.00077	0.07452

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX1H7L	0.00000	6.81596	10.70860

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7L	CK->Q (RR)	SE	0.09166	0.23023	0.55539
	CK->Q (RR)	!SE	0.09167	0.23025	0.55545

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7L	CK->Q (RF)	SE	0.06992	0.17959	0.41858
	CK->Q (RF)	!SE	0.06994	0.17960	0.41853

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	**hold**	**CK (R)**	-0.07966	-0.04320	-0.01924
	setup	**CK (R)**	0.02676	0.05341	0.09210

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	**hold**	**CK (R)**	-0.16915	-0.05646	0.01296
	setup	**CK (R)**	0.02613	0.08505	0.19274

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	**hold**	**CK (R)**	-0.04998	-0.03041	-0.00642
	setup	**CK (R)**	0.04438	0.07371	0.10225

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	**hold**	**CK (R)**	-0.13694	-0.04286	0.02470
	setup	**CK (R)**	0.04067	0.08306	0.17364

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	hold	CK (R)	-0.08494	-0.04515	-0.02106
	setup	CK (R)	0.02837	0.05601	0.09612

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7L	hold	CK (R)	-0.18106	-0.06725	0.00386
	setup	CK (R)	0.03472	0.09598	0.20844

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7L	CK	SE	0.00373	0.00402	0.00510
	CK	SE	0.00004	0.00005	0.00006
	CK	SE	-0.00006	-0.00003	-0.00003
	CK	SE	0.00447	0.00476	0.00582
	CK	!SE	0.00373	0.00402	0.00515
	CK	!SE	0.00002	0.00005	0.00006
	CK	!SE	-0.00003	-0.00003	0.00001
	CK	!SE	0.00445	0.00476	0.00582

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7L	CK	SE	0.00402	0.00435	0.00559
	CK	SE	-0.00005	-0.00002	-0.00001
	CK	SE	0.00006	0.00006	0.00007
	CK	SE	0.00461	0.00494	0.00618
	CK	!SE	0.00402	0.00435	0.00559
	CK	!SE	-0.00004	-0.00002	-0.00001
	CK	!SE	0.00006	0.00006	0.00006
	CK	!SE	0.00461	0.00494	0.00618

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00217	0.00245	0.00348
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00003
	0.00282	0.00310	0.00414

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00434	0.00471	0.00602
	-0.00001	-0.00000	0.00000
	-0.00000	0.00001	0.00002
	0.00365	0.00404	0.00534

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00170	0.00188	0.00254
	0.00010	0.00011	0.00011
	-0.00012	-0.00012	-0.00012
	0.00267	0.00285	0.00352

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00241	0.00262	0.00339
	-0.00011	-0.00011	-0.00010
	0.00012	0.00012	0.00012
	0.00143	0.00164	0.00241

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00245	0.00279	0.00395
	0.00000	0.00000	0.00000
	0.00007	0.00008	0.00010
	0.00322	0.00355	0.00471

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00292	0.00363	0.00598
	0.00000	0.00000	0.00000
	0.00011	0.00012	0.00014
	0.00131	0.00201	0.00437

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00137	0.00153	0.00214
	0.00009	0.00010	0.00010
	-0.00012	-0.00012	-0.00011
	0.00229	0.00245	0.00305

Passive power(pJ) for SI falling :

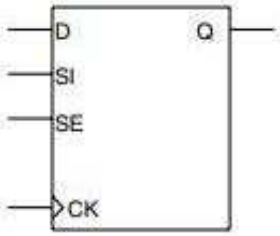
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7L	0.00273	0.00292	0.00361
	-0.00010	-0.00010	-0.00009
	0.00011	0.00012	0.00012
	0.00182	0.00201	0.00270

SDFFQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX2H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX2H7L	0.00100	0.00072	0.00208	0.00083	0.09454

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX2H7L	0.00000	7.70380	12.03540

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7L	CK->Q (RR)	SE	0.08499	0.22258	0.54556
	CK->Q (RR)	!SE	0.08500	0.22259	0.54541

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7L	CK->Q (RF)	SE	0.06769	0.17805	0.41858
	CK->Q (RF)	!SE	0.06777	0.17806	0.41857

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	**hold**	**CK (R)**	-0.08182	-0.04479	-0.02183
	setup	**CK (R)**	0.03157	0.05554	0.09680

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	**hold**	**CK (R)**	-0.16773	-0.06164	0.00201
	setup	**CK (R)**	0.03302	0.08844	0.19373

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	**hold**	**CK (R)**	-0.05049	-0.03282	-0.01537
	setup	**CK (R)**	0.05149	0.07438	0.09945

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	**hold**	**CK (R)**	-0.13096	-0.04713	0.01397
	setup	**CK (R)**	0.04152	0.08397	0.17647

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	hold	CK (R)	-0.08984	-0.04804	-0.02396
	setup	CK (R)	0.03325	0.05854	0.10028

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7L	hold	CK (R)	-0.18395	-0.07284	-0.00858
	setup	CK (R)	0.04209	0.09928	0.20813

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7L	CK	SE	0.00399	0.00435	0.00565
	CK	SE	0.00004	0.00005	0.00006
	CK	SE	-0.00006	-0.00003	0.00003
	CK	SE	0.00473	0.00514	0.00641
	CK	!SE	0.00399	0.00435	0.00563
	CK	!SE	0.00003	0.00005	0.00010
	CK	!SE	-0.00007	-0.00003	0.00004
	CK	!SE	0.00473	0.00517	0.00641

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7L	CK	SE	0.00434	0.00473	0.00621
	CK	SE	-0.00005	-0.00002	0.00002
	CK	SE	0.00006	0.00006	0.00007
	CK	SE	0.00497	0.00537	0.00685
	CK	!SE	0.00435	0.00474	0.00621
	CK	!SE	-0.00005	-0.00001	0.00003
	CK	!SE	0.00006	0.00006	0.00007
	CK	!SE	0.00497	0.00537	0.00685

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00220	0.00254	0.00376
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00290	0.00324	0.00446

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00440	0.00485	0.00637
	-0.00000	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00368	0.00413	0.00565

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00170	0.00189	0.00257
	0.00010	0.00010	0.00011
	-0.00012	-0.00012	-0.00012
	0.00268	0.00286	0.00354

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00246	0.00268	0.00346
	-0.00011	-0.00010	-0.00010
	0.00012	0.00012	0.00012
	0.00149	0.00170	0.00249

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00248	0.00287	0.00423
	0.00000	0.00000	0.00000
	0.00005	0.00007	0.00008
	0.00329	0.00368	0.00504

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00304	0.00381	0.00641
	0.00000	0.00000	0.00000
	0.00011	0.00012	0.00015
	0.00136	0.00215	0.00475

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00138	0.00154	0.00217
	0.00009	0.00010	0.00010
	-0.00012	-0.00012	-0.00011
	0.00232	0.00248	0.00310

Passive power(pJ) for SI falling :

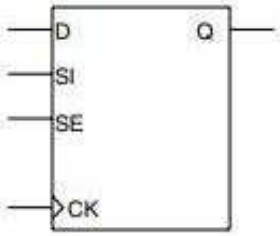
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7L	0.00279	0.00298	0.00369
	-0.00010	-0.00010	-0.00009
	0.00011	0.00012	0.00012
	0.00185	0.00204	0.00275

SDFFQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX3H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX3H7L	0.00100	0.00077	0.00205	0.00078	0.14162

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX3H7L	0.00000	8.52165	13.42730

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7L	CK->Q (RR)	SE	0.08577	0.22348	0.54551
	CK->Q (RR)	!SE	0.08578	0.22351	0.54528

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7L	CK->Q (RF)	SE	0.06724	0.17839	0.41812
	CK->Q (RF)	!SE	0.06721	0.17840	0.41809

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	**hold**	**CK (R)**	-0.08679	-0.04668	-0.02417
	setup	**CK (R)**	0.03157	0.05728	0.10079

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	**hold**	**CK (R)**	-0.16879	-0.06086	0.00262
	setup	**CK (R)**	0.03439	0.08867	0.19304

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	**hold**	**CK (R)**	-0.05848	-0.03801	-0.02003
	setup	**CK (R)**	0.06054	0.08243	0.10706

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	**hold**	**CK (R)**	-0.13583	-0.04631	0.01408
	setup	**CK (R)**	0.04733	0.08503	0.16721

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	hold	CK (R)	-0.09824	-0.05129	-0.02660
	setup	CK (R)	0.03485	0.06292	0.10813

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7L	hold	CK (R)	-0.19067	-0.07823	-0.01109
	setup	CK (R)	0.04826	0.10551	0.21672

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7L	CK	SE	0.00416	0.00459	0.00596
	CK	SE	0.00003	0.00005	0.00010
	CK	SE	-0.00002	-0.00001	0.00002
	CK	SE	0.00499	0.00537	0.00667
	CK	!SE	0.00417	0.00460	0.00593
	CK	!SE	-0.00001	0.00004	0.00009
	CK	!SE	-0.00006	-0.00002	0.00002
	CK	!SE	0.00497	0.00537	0.00667

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7L	CK	SE	0.00433	0.00476	0.00642
	CK	SE	-0.00004	0.00000	0.00005
	CK	SE	0.00001	0.00006	0.00007
	CK	SE	0.00501	0.00543	0.00708
	CK	!SE	0.00433	0.00477	0.00642
	CK	!SE	-0.00002	0.00000	0.00005
	CK	!SE	0.00005	0.00006	0.00006
	CK	!SE	0.00501	0.00543	0.00708

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00189	0.00225	0.00349
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00260	0.00295	0.00419

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00439	0.00484	0.00638
	-0.00001	-0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00365	0.00411	0.00565

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00184	0.00204	0.00277
	0.00012	0.00012	0.00013
	-0.00013	-0.00012	-0.00012
	0.00287	0.00307	0.00380

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00262	0.00286	0.00371
	-0.00013	-0.00012	-0.00012
	0.00012	0.00012	0.00013
	0.00158	0.00181	0.00267

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00134	0.00205	0.00445
	0.00009	0.00011	0.00012
	-0.00013	-0.00011	-0.00009
	0.00303	0.00375	0.00615

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00318	0.00398	0.00662
	-0.00012	-0.00011	-0.00009
	0.00010	0.00012	0.00013
	0.00149	0.00228	0.00492

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00149	0.00167	0.00229
	0.00010	0.00011	0.00011
	-0.00012	-0.00011	-0.00011
	0.00244	0.00261	0.00322

Passive power(pJ) for SI falling :

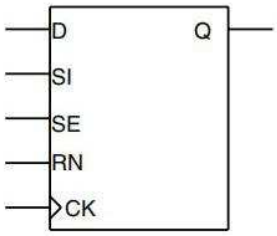
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7L	0.00293	0.00313	0.00385
	-0.00011	-0.00011	-0.00010
	0.00011	0.00011	0.00012
	0.00199	0.00219	0.00291

SDFFRQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX0P5H7L	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX0P5H7L	0.00089	0.00076	0.00079	0.00202	0.00076	0.06297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX0P5H7L	0.00000	6.02595	10.82580

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7L	CK->Q (RR)	(RN * SE)	0.08955	0.23558	0.56427
	CK->Q (RR)	(RN * !SE)	0.08958	0.23559	0.56417

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7L	CK->Q (RF)	(RN * SE)	0.06431	0.17456	0.41128
	CK->Q (RF)	(RN * !SE)	0.06430	0.17456	0.41119
	RN->Q (FF)	(CK * D * SE * SI)	0.05584	0.19511	0.50786
	RN->Q (FF)	(CK * D * SE * !SI)	0.05584	0.19510	0.50786
	RN->Q (FF)	(CK * D * !SE * SI)	0.05584	0.19511	0.50786
	RN->Q (FF)	(CK * D * !SE * !SI)	0.05584	0.19511	0.50786
	RN->Q (FF)	(CK * !D * SE * SI)	0.05584	0.19511	0.50786
	RN->Q (FF)	(CK * !D * SE * !SI)	0.05584	0.19510	0.50786
	RN->Q (FF)	(CK * !D * !SE * SI)	0.05584	0.19510	0.50786
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.05584	0.19510	0.50786
	RN->Q (FF)	(!CK * D * SE * SI)	0.05114	0.17849	0.46787
	RN->Q (FF)	(!CK * D * SE * !SI)	0.04672	0.17077	0.45275
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05114	0.17849	0.46787
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05114	0.17849	0.46787
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05114	0.17849	0.46787
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.04672	0.17078	0.45289
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.04672	0.17078	0.45316
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.04672	0.17077	0.45279

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	**hold**	**CK (R)**	-0.03180	-0.00337	0.02399
	setup	**CK (R)**	0.00796	0.04231	0.07795

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	**hold**	**CK (R)**	-0.17078	-0.08023	-0.03673
	setup	**CK (R)**	0.05827	0.10413	0.19761

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	**recovery**	**CK (R)**	-0.06112	0.01484	0.20653
	removal	**CK (R)**	0.05510	0.07850	0.11343

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX0P5H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	hold	CK (R)	-0.02083	0.00308	0.02411
	setup	CK (R)	0.07289	0.09118	0.11180

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	hold	CK (R)	-0.11214	-0.03502	0.01322
	setup	CK (R)	0.04570	0.08721	0.16662

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	hold	CK (R)	-0.03951	-0.00730	0.02305
	setup	CK (R)	0.00685	0.04652	0.08834

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7L	hold	CK (R)	-0.17405	-0.08297	-0.04234
	setup	CK (R)	0.06138	0.10733	0.19849

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX0P5H7L	CK	(RN * SE)	0.00353	0.00387	0.00506
	CK	(RN * SE)	0.00001	0.00001	0.00001
	CK	(RN * SE)	-0.00000	-0.00000	0.00000
	CK	(RN * SE)	0.00426	0.00460	0.00579
	CK	(RN * !SE)	0.00356	0.00390	0.00509
	CK	(RN * !SE)	0.00001	0.00001	0.00002
	CK	(RN * !SE)	-0.00002	-0.00000	0.00000
	CK	(RN * !SE)	0.00429	0.00463	0.00582

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(RN * SE)**	0.00347	0.00382	0.00508
	CK	**(RN * SE)**	-0.00001	-0.00001	0.00001
	CK	**(RN * SE)**	0.00000	0.00000	0.00000
	CK	**(RN * SE)**	0.00401	0.00435	0.00560
	CK	**(RN * !SE)**	0.00349	0.00385	0.00511
	CK	**(RN * !SE)**	-0.00002	-0.00001	0.00001
	CK	**(RN * !SE)**	0.00000	0.00000	0.00003
	CK	**(RN * !SE)**	0.00403	0.00438	0.00563
	RN	**(CK * D * SE * SI)**	0.00365	0.00397	0.00538
	RN	**(CK * D * SE * SI)**	-0.00004	-0.00001	0.00002
	RN	**(CK * D * SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * D * SE * SI)**	0.00307	0.00340	0.00482
	RN	**(CK * D * SE * !SI)**	0.00365	0.00397	0.00538
	RN	**(CK * D * SE * !SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * D * SE * !SI)**	-0.00004	-0.00001	0.00001
	RN	**(CK * D * SE * !SI)**	0.00307	0.00341	0.00483
	RN	**(CK * D * !SE * SI)**	0.00365	0.00397	0.00538
	RN	**(CK * D * !SE * SI)**	-0.00004	-0.00001	0.00002
	RN	**(CK * D * !SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * D * !SE * SI)**	0.00307	0.00341	0.00483
	RN	**(CK * D * !SE * !SI)**	0.00365	0.00397	0.00538
	RN	**(CK * D * !SE * !SI)**	-0.00004	-0.00001	0.00002
	RN	**(CK * D * !SE * !SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * D * !SE * !SI)**	0.00307	0.00341	0.00483
	RN	**(CK * !D * SE * SI)**	0.00365	0.00397	0.00538
	RN	**(CK * !D * SE * SI)**	-0.00004	-0.00000	0.00002
	RN	**(CK * !D * SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * !D * SE * SI)**	0.00307	0.00340	0.00482
	RN	**(CK * !D * SE * !SI)**	0.00365	0.00397	0.00538
	RN	**(CK * !D * SE * !SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * !D * SE * !SI)**	-0.00004	-0.00001	0.00001
	RN	**(CK * !D * SE * !SI)**	0.00307	0.00341	0.00482
	RN	**(CK * !D * !SE * SI)**	0.00365	0.00397	0.00538
	RN	**(CK * !D * !SE * SI)**	-0.00004	-0.00000	0.00003
	RN	**(CK * !D * !SE * SI)**	-0.00004	-0.00001	0.00001
SDFFRQX0P5H7L	**RN**	**(CK * !D * !SE * SI)**	0.00307	0.00341	0.00483
	RN	**(CK * !D * !SE * !SI)**	0.00365	0.00397	0.00538
	RN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00000	0.00002
	RN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00001	0.00001
	RN	**(CK * !D * !SE * !SI)**	0.00307	0.00341	0.00483
	RN	**(!CK * D * SE * SI)**	0.00243	0.00269	0.00375
	RN	**(!CK * D * SE * SI)**	-0.00006	-0.00004	-0.00001
	RN	**(!CK * D * SE * SI)**	0.00004	0.00005	0.00007
	RN	**(!CK * D * SE * SI)**	0.00177	0.00204	0.00310
	RN	**(!CK * D * SE * !SI)**	0.00231	0.00258	0.00363
	RN	**(!CK * D * SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(!CK * D * SE * !SI)**	0.00003	0.00004	0.00010
	RN	**(!CK * D * SE * !SI)**	0.00163	0.00195	0.00301
	RN	**(!CK * D * !SE * SI)**	0.00243	0.00269	0.00375
	RN	**(!CK * D * !SE * SI)**	-0.00006	-0.00004	-0.00001
	RN	**(!CK * D * !SE * SI)**	0.00004	0.00005	0.00007
	RN	**(!CK * D * !SE * SI)**	0.00177	0.00204	0.00310
	RN	**(!CK * D * !SE * !SI)**	0.00243	0.00270	0.00375
	RN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00004	-0.00001
	RN	**(!CK * D * !SE * !SI)**	0.00004	0.00005	0.00007
	RN	**(!CK * D * !SE * !SI)**	0.00177	0.00204	0.00310
	RN	**(!CK * !D * SE * SI)**	0.00243	0.00269	0.00375
	RN	**(!CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00001
	RN	**(!CK * !D * SE * SI)**	0.00004	0.00005	0.00007
	RN	**(!CK * !D * SE * SI)**	0.00177	0.00204	0.00310
	RN	**(!CK * !D * SE * !SI)**	0.00231	0.00258	0.00363
	RN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(!CK * !D * SE * !SI)**	0.00003	0.00004	0.00010
	RN	**(!CK * !D * SE * !SI)**	0.00163	0.00195	0.00301
	RN	**(!CK * !D * !SE * SI)**	0.00231	0.00258	0.00363
	RN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00003	0.00000
	RN	**(!CK * !D * !SE * SI)**	0.00003	0.00004	0.00010
	RN	**(!CK * !D * !SE * SI)**	0.00163	0.00195	0.00301
	RN	**(!CK * !D * !SE * !SI)**	0.00231	0.00258	0.00363
	RN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00003	0.00000
	RN	**(!CK * !D * !SE * !SI)**	0.00003	0.00004	0.00010
	RN	**(!CK * !D * !SE * !SI)**	0.00163	0.00195	0.00301

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00314	0.00342	0.00444
	0.00000	0.00001	0.00003
	0.00000	0.00001	0.00001
	0.00376	0.00402	0.00504

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00406	0.00437	0.00552
	-0.00001	-0.00001	-0.00000
	0.00004	0.00005	0.00006
	0.00337	0.00368	0.00483

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00190	0.00208	0.00273
	0.00004	0.00005	0.00005
	-0.00006	-0.00006	-0.00005
	0.00287	0.00305	0.00370

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00246	0.00266	0.00340
	-0.00005	-0.00005	-0.00004
	0.00005	0.00006	0.00006
	0.00149	0.00169	0.00242

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00028	0.00029	0.00029
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00090	0.00090	0.00091

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00020	0.00020	0.00021
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00027	-0.00026	-0.00025

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00262	0.00295	0.00411
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00333	0.00366	0.00480

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00295	0.00364	0.00596
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00007
	0.00134	0.00202	0.00434

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00157	0.00173	0.00233
	0.00004	0.00005	0.00006
	-0.00005	-0.00005	-0.00004
	0.00248	0.00264	0.00323

Passive power(pJ) for SI falling :

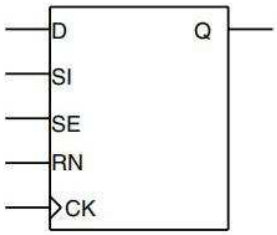
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7L	0.00274	0.00291	0.00357
	-0.00006	-0.00005	-0.00004
	0.00004	0.00005	0.00006
	0.00183	0.00201	0.00267

SDFFRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**RN**	**SE**	**SI**	**Q**
R	**0**	**1**	**0**	**x**	**0**
R	**x**	**1**	**1**	**0**	**0**
R	**x**	**1**	**1**	**1**	**1**
R	**1**	**1**	**0**	**x**	**1**
x	**x**	**0**	**x**	**x**	**0**
x	**x**	**1**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
SDFFRQX1H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX1H7L	0.00087	0.00076	0.00074	0.00198	0.00076	0.07453

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX1H7L	0.00000	6.16279	11.13810

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7L	CK->Q (RR)	(RN * SE)	0.08715	0.23372	0.56241
	CK->Q (RR)	(RN * !SE)	0.08721	0.23372	0.56238

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7L	CK->Q (RF)	(RN * SE)	0.06291	0.17384	0.41165
	CK->Q (RF)	(RN * !SE)	0.06293	0.17385	0.41165
	RN->Q (FF)	(CK * D * SE * SI)	0.05524	0.19622	0.51135
	RN->Q (FF)	(CK * D * SE * !SI)	0.05524	0.19622	0.51131
	RN->Q (FF)	(CK * D * !SE * SI)	0.05525	0.19622	0.51130
	RN->Q (FF)	(CK * D * !SE * !SI)	0.05525	0.19622	0.51130
	RN->Q (FF)	(CK * !D * SE * SI)	0.05524	0.19622	0.51132
	RN->Q (FF)	(CK * !D * SE * !SI)	0.05525	0.19622	0.51131
	RN->Q (FF)	(CK * !D * !SE * SI)	0.05524	0.19623	0.51138
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.05524	0.19623	0.51140
	RN->Q (FF)	(!CK * D * SE * SI)	0.05030	0.17923	0.47093
	RN->Q (FF)	(!CK * D * SE * !SI)	0.04587	0.17146	0.45600
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05030	0.17922	0.47089
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05030	0.17922	0.47089
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05030	0.17923	0.47089
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.04587	0.17146	0.45600
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.04587	0.17146	0.45600
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.04587	0.17146	0.45600

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	**hold**	**CK (R)**	-0.03062	-0.00311	0.02294
	setup	**CK (R)**	0.00517	0.04087	0.07551

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	**hold**	**CK (R)**	-0.16945	-0.07890	-0.03622
	setup	**CK (R)**	0.05540	0.10210	0.19330

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	**recovery**	**CK (R)**	-0.06503	0.01420	0.21202
	removal	**CK (R)**	0.05719	0.07953	0.11382

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX1H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	hold	CK (R)	-0.02061	0.00315	0.02408
	setup	CK (R)	0.06969	0.08900	0.10967

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	hold	CK (R)	-0.11130	-0.03488	0.01105
	setup	CK (R)	0.04193	0.08609	0.16714

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	hold	CK (R)	-0.03805	-0.00702	0.02125
	setup	CK (R)	0.00587	0.04533	0.08746

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7L	hold	CK (R)	-0.17174	-0.08135	-0.03869
	setup	CK (R)	0.05843	0.10500	0.19540

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX1H7L	CK	(RN * SE)	0.00362	0.00396	0.00516
	CK	(RN * SE)	0.00000	0.00001	0.00002
	CK	(RN * SE)	-0.00002	-0.00000	0.00000
	CK	(RN * SE)	0.00433	0.00466	0.00586
	CK	(RN * !SE)	0.00366	0.00400	0.00519
	CK	(RN * !SE)	0.00000	0.00001	0.00002
	CK	(RN * !SE)	0.00000	0.00000	0.00000
	CK	(RN * !SE)	0.00436	0.00470	0.00589

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX1H7L	CK	(RN * SE)	0.00353	0.00389	0.00517
	CK	(RN * SE)	-0.00002	-0.00001	0.00001
	CK	(RN * SE)	0.00000	0.00000	0.00005
	CK	(RN * SE)	0.00405	0.00441	0.00569
	CK	(RN * !SE)	0.00359	0.00392	0.00520
	CK	(RN * !SE)	-0.00002	-0.00001	0.00000
	CK	(RN * !SE)	0.00000	0.00000	0.00000
	CK	(RN * !SE)	0.00411	0.00445	0.00572
	RN	(CK * D * SE * SI)	0.00371	0.00405	0.00557
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00004
	RN	(CK * D * SE * SI)	-0.00001	-0.00000	0.00003
	RN	(CK * D * SE * SI)	0.00318	0.00352	0.00505
	RN	(CK * D * SE * !SI)	0.00371	0.00405	0.00557
	RN	(CK * D * SE * !SI)	-0.00004	0.00000	0.00004
	RN	(CK * D * SE * !SI)	-0.00001	-0.00000	0.00003
	RN	(CK * D * SE * !SI)	0.00319	0.00352	0.00506
	RN	(CK * D * !SE * SI)	0.00371	0.00405	0.00557
	RN	(CK * D * !SE * SI)	-0.00005	0.00000	0.00004
	RN	(CK * D * !SE * SI)	-0.00001	-0.00000	0.00003
	RN	(CK * D * !SE * SI)	0.00317	0.00352	0.00506
	RN	(CK * D * !SE * !SI)	0.00371	0.00405	0.00557
	RN	(CK * D * !SE * !SI)	-0.00005	0.00000	0.00004
	RN	(CK * D * !SE * !SI)	-0.00001	-0.00000	0.00003
	RN	(CK * D * !SE * !SI)	0.00317	0.00352	0.00506
	RN	(CK * !D * SE * SI)	0.00371	0.00405	0.00557
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00004
	RN	(CK * !D * SE * SI)	-0.00001	-0.00000	0.00003
	RN	(CK * !D * SE * SI)	0.00318	0.00352	0.00505
	RN	(CK * !D * SE * !SI)	0.00371	0.00405	0.00557
	RN	(CK * !D * SE * !SI)	-0.00004	0.00000	0.00004
	RN	(CK * !D * SE * !SI)	-0.00001	-0.00000	0.00003
	RN	(CK * !D * SE * !SI)	0.00319	0.00352	0.00505
	RN	(CK * !D * !SE * SI)	0.00371	0.00405	0.00558
	RN	(CK * !D * !SE * SI)	-0.00004	0.00000	0.00004
	RN	(CK * !D * !SE * SI)	-0.00001	-0.00000	0.00003
	RN	(CK * !D * !SE * SI)	0.00319	0.00353	0.00506
	RN	(CK * !D * !SE * !SI)	0.00371	0.00405	0.00557
	RN	(CK * !D * !SE * !SI)	-0.00004	0.00000	0.00004
	RN	(CK * !D * !SE * !SI)	-0.00001	-0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	0.00319	0.00352	0.00506
	RN	(!CK * D * SE * SI)	0.00246	0.00274	0.00387
	RN	(!CK * D * SE * SI)	-0.00008	-0.00004	-0.00001
	RN	(!CK * D * SE * SI)	0.00004	0.00005	0.00006
	RN	(!CK * D * SE * SI)	0.00184	0.00212	0.00325
	RN	(!CK * D * SE * !SI)	0.00235	0.00262	0.00376
	RN	(!CK * D * SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * D * SE * !SI)	-0.00002	0.00004	0.00018
	RN	(!CK * D * SE * !SI)	0.00163	0.00203	0.00317
	RN	(!CK * D * !SE * SI)	0.00246	0.00274	0.00387
	RN	(!CK * D * !SE * SI)	-0.00008	-0.00004	-0.00001
	RN	(!CK * D * !SE * SI)	0.00004	0.00005	0.00006
	RN	(!CK * D * !SE * SI)	0.00184	0.00212	0.00325
	RN	(!CK * D * !SE * !SI)	0.00246	0.00274	0.00387
	RN	(!CK * D * !SE * !SI)	-0.00008	-0.00004	-0.00001
	RN	(!CK * D * !SE * !SI)	0.00002	0.00005	0.00006
	RN	(!CK * D * !SE * !SI)	0.00185	0.00212	0.00325
	RN	(!CK * !D * SE * SI)	0.00246	0.00274	0.00387
	RN	(!CK * !D * SE * SI)	-0.00013	-0.00004	-0.00001
	RN	(!CK * !D * SE * SI)	0.00002	0.00005	0.00006
	RN	(!CK * !D * SE * SI)	0.00184	0.00212	0.00325
	RN	(!CK * !D * SE * !SI)	0.00235	0.00262	0.00375
	RN	(!CK * !D * SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * !D * SE * !SI)	-0.00002	0.00004	0.00018
	RN	(!CK * !D * SE * !SI)	0.00163	0.00203	0.00317
	RN	(!CK * !D * !SE * SI)	0.00235	0.00262	0.00376
	RN	(!CK * !D * !SE * SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * !D * !SE * SI)	-0.00005	0.00004	0.00018
	RN	(!CK * !D * !SE * SI)	0.00163	0.00203	0.00318
	RN	(!CK * !D * !SE * !SI)	0.00235	0.00262	0.00376
	RN	(!CK * !D * !SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * !D * !SE * !SI)	-0.00005	0.00004	0.00018
	RN	(!CK * !D * !SE * !SI)	0.00163	0.00203	0.00317

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00318	0.00346	0.00447
	-0.00000	0.00001	0.00002
	0.00000	0.00001	0.00002
	0.00378	0.00405	0.00506

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00369	0.00410	0.00549
	0.00003	0.00005	0.00006
	-0.00002	-0.00001	-0.00000
	0.00314	0.00356	0.00495

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00194	0.00213	0.00278
	0.00004	0.00005	0.00006
	-0.00005	-0.00004	-0.00003
	0.00291	0.00308	0.00373

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00258	0.00278	0.00352
	-0.00006	-0.00005	-0.00004
	0.00003	0.00004	0.00005
	0.00162	0.00183	0.00257

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00032	0.00032	0.00032
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00091	0.00091	0.00092

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00019	0.00019	0.00020
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00026	-0.00025	-0.00023

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00267	0.00300	0.00416
	0.00000	0.00000	0.00000
	0.00000	0.00002	0.00003
	0.00340	0.00371	0.00485

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00298	0.00368	0.00599
	-0.00000	-0.00000	0.00000
	0.00004	0.00005	0.00007
	0.00139	0.00208	0.00440

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00162	0.00178	0.00237
	0.00004	0.00005	0.00006
	-0.00005	-0.00003	-0.00003
	0.00251	0.00267	0.00326

Passive power(pJ) for SI falling :

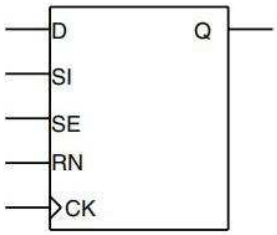
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7L	0.00286	0.00303	0.00369
	-0.00006	-0.00005	-0.00004
	0.00003	0.00003	0.00005
	0.00197	0.00215	0.00282

SDFFRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX2H7L	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX2H7L	0.00095	0.00077	0.00075	0.00205	0.00076	0.08597

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX2H7L	0.00000	6.84636	12.56820

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7L	CK->Q (RR)	(RN * SE)	0.08435	0.22931	0.55521
	CK->Q (RR)	(RN * !SE)	0.08435	0.22932	0.55521

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7L	CK->Q (RF)	(RN * SE)	0.05987	0.16457	0.38605
	CK->Q (RF)	(RN * !SE)	0.05987	0.16456	0.38600
	RN->Q (FF)	(CK * D * SE * SI)	0.05782	0.19503	0.49920
	RN->Q (FF)	(CK * D * SE * !SI)	0.05782	0.19503	0.49921
	RN->Q (FF)	(CK * D * !SE * SI)	0.05782	0.19503	0.49920
	RN->Q (FF)	(CK * D * !SE * !SI)	0.05782	0.19503	0.49920
	RN->Q (FF)	(CK * !D * SE * SI)	0.05782	0.19503	0.49920
	RN->Q (FF)	(CK * !D * SE * !SI)	0.05782	0.19503	0.49921
	RN->Q (FF)	(CK * !D * !SE * SI)	0.05782	0.19503	0.49921
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.05782	0.19503	0.49921
	RN->Q (FF)	(!CK * D * SE * SI)	0.05301	0.17871	0.46039
	RN->Q (FF)	(!CK * D * SE * !SI)	0.04836	0.17094	0.44571
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05301	0.17871	0.46039
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05301	0.17871	0.46039
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05301	0.17871	0.46040
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.04836	0.17094	0.44571
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.04836	0.17094	0.44565
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.04836	0.17094	0.44565

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	**hold**	**CK (R)**	-0.03192	-0.00663	0.01890
	setup	**CK (R)**	0.01223	0.04519	0.07986

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	**hold**	**CK (R)**	-0.17497	-0.08115	-0.04067
	setup	**CK (R)**	0.05891	0.10425	0.20024

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	**recovery**	**CK (R)**	-0.05340	0.02797	0.25466
	removal	**CK (R)**	0.04369	0.07088	0.09808

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX2H7L	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	hold	CK (R)	-0.02295	-0.00138	0.01829
	setup	CK (R)	0.07138	0.08804	0.11063

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	hold	CK (R)	-0.10781	-0.03515	0.00907
	setup	CK (R)	0.04563	0.08859	0.17233

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	hold	CK (R)	-0.04084	-0.01083	0.01507
	setup	CK (R)	0.01154	0.04978	0.09121

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7L	hold	CK (R)	-0.17717	-0.08336	-0.04270
	setup	CK (R)	0.06362	0.10737	0.20287

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX2H7L	CK	(RN * SE)	0.00388	0.00429	0.00570
	CK	(RN * SE)	0.00000	0.00001	0.00002
	CK	(RN * SE)	-0.00001	-0.00000	0.00000
	CK	(RN * SE)	0.00464	0.00505	0.00645
	CK	(RN * !SE)	0.00393	0.00433	0.00574
	CK	(RN * !SE)	0.00000	0.00001	0.00001
	CK	(RN * !SE)	-0.00001	-0.00000	0.00000
	CK	(RN * !SE)	0.00469	0.00509	0.00649

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX2H7L	CK	(RN * SE)	0.00388	0.00427	0.00578
	CK	(RN * SE)	-0.00002	-0.00000	0.00006
	CK	(RN * SE)	0.00000	0.00000	0.00001
	CK	(RN * SE)	0.00448	0.00487	0.00637
	CK	(RN * !SE)	0.00385	0.00431	0.00582
	CK	(RN * !SE)	-0.00001	-0.00000	0.00011
	CK	(RN * !SE)	0.00000	0.00000	0.00001
	CK	(RN * !SE)	0.00452	0.00491	0.00641
	RN	(CK * D * SE * SI)	0.00404	0.00440	0.00613
	RN	(CK * D * SE * SI)	-0.00003	-0.00000	0.00004
	RN	(CK * D * SE * SI)	-0.00003	-0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00350	0.00386	0.00560
	RN	(CK * D * SE * !SI)	0.00404	0.00441	0.00613
	RN	(CK * D * SE * !SI)	-0.00004	-0.00000	0.00003
	RN	(CK * D * SE * !SI)	-0.00003	-0.00000	0.00002
	RN	(CK * D * SE * !SI)	0.00349	0.00386	0.00560
	RN	(CK * D * !SE * SI)	0.00404	0.00441	0.00613
	RN	(CK * D * !SE * SI)	-0.00003	-0.00000	0.00004
	RN	(CK * D * !SE * SI)	-0.00003	-0.00000	0.00001
	RN	(CK * D * !SE * SI)	0.00350	0.00386	0.00560
	RN	(CK * D * !SE * !SI)	0.00404	0.00441	0.00613
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00000	0.00004
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00000	0.00001
	RN	(CK * D * !SE * !SI)	0.00350	0.00386	0.00560
	RN	(CK * !D * SE * SI)	0.00404	0.00440	0.00613
	RN	(CK * !D * SE * SI)	-0.00003	-0.00000	0.00004
	RN	(CK * !D * SE * SI)	-0.00003	-0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00350	0.00386	0.00560
	RN	(CK * !D * SE * !SI)	0.00404	0.00440	0.00613
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00000	0.00003
	RN	(CK * !D * SE * !SI)	-0.00003	-0.00000	0.00002
	RN	(CK * !D * SE * !SI)	0.00348	0.00386	0.00560
	RN	(CK * !D * !SE * SI)	0.00404	0.00441	0.00614
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00000	0.00003
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00000	0.00002
	RN	(CK * !D * !SE * SI)	0.00349	0.00386	0.00560
	RN	(CK * !D * !SE * !SI)	0.00404	0.00441	0.00613
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	-0.00003	-0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	0.00349	0.00386	0.00560
	RN	(!CK * D * SE * SI)	0.00272	0.00303	0.00434
	RN	(!CK * D * SE * SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * D * SE * SI)	0.00001	0.00005	0.00008
	RN	(!CK * D * SE * SI)	0.00211	0.00241	0.00371
	RN	(!CK * D * SE * !SI)	0.00262	0.00292	0.00423
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00003	-0.00000
	RN	(!CK * D * SE * !SI)	0.00000	0.00004	0.00005
	RN	(!CK * D * SE * !SI)	0.00201	0.00232	0.00366
	RN	(!CK * D * !SE * SI)	0.00272	0.00303	0.00434
	RN	(!CK * D * !SE * SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * D * !SE * SI)	0.00001	0.00005	0.00008
	RN	(!CK * D * !SE * SI)	0.00211	0.00241	0.00371
	RN	(!CK * D * !SE * !SI)	0.00272	0.00303	0.00434
	RN	(!CK * D * !SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(!CK * D * !SE * !SI)	0.00001	0.00005	0.00008
	RN	(!CK * D * !SE * !SI)	0.00211	0.00241	0.00371
	RN	(!CK * !D * SE * SI)	0.00272	0.00303	0.00434
	RN	(!CK * !D * SE * SI)	-0.00006	-0.00004	0.00000
	RN	(!CK * !D * SE * SI)	0.00004	0.00006	0.00008
	RN	(!CK * !D * SE * SI)	0.00211	0.00240	0.00371
	RN	(!CK * !D * SE * !SI)	0.00262	0.00291	0.00423
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00000
	RN	(!CK * !D * SE * !SI)	0.00000	0.00004	0.00005
	RN	(!CK * !D * SE * !SI)	0.00201	0.00231	0.00364
	RN	(!CK * !D * !SE * SI)	0.00262	0.00292	0.00423
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00000
	RN	(!CK * !D * !SE * SI)	0.00000	0.00004	0.00005
	RN	(!CK * !D * !SE * SI)	0.00202	0.00232	0.00364
	RN	(!CK * !D * !SE * !SI)	0.00262	0.00292	0.00423
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00000
	RN	(!CK * !D * !SE * !SI)	0.00000	0.00004	0.00005
	RN	(!CK * !D * !SE * !SI)	0.00201	0.00232	0.00367

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00331	0.00364	0.00484
	-0.00001	0.00001	0.00003
	0.00000	0.00001	0.00002
	0.00397	0.00429	0.00549

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00382	0.00430	0.00592
	0.00003	0.00005	0.00005
	-0.00002	-0.00001	0.00000
	0.00322	0.00369	0.00531

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00202	0.00219	0.00285
	0.00003	0.00005	0.00007
	-0.00004	-0.00004	-0.00004
	0.00296	0.00314	0.00380

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00264	0.00284	0.00359
	-0.00005	-0.00004	-0.00003
	0.00004	0.00004	0.00004
	0.00170	0.00191	0.00265

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00032	0.00033	0.00033
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00095	0.00095	0.00096

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00019	0.00019	0.00020
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00027	-0.00026	-0.00024

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00261	0.00299	0.00436
	0.00000	0.00000	0.00001
	-0.00002	-0.00000	0.00001
	0.00346	0.00384	0.00518

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00325	0.00401	0.00654
	-0.00001	-0.00000	0.00000
	0.00007	0.00008	0.00008
	0.00154	0.00231	0.00485

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00172	0.00187	0.00246
	0.00003	0.00004	0.00005
	-0.00004	-0.00003	-0.00003
	0.00259	0.00275	0.00334

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7L	0.00290	0.00308	0.00375
	-0.00005	-0.00004	-0.00003
	0.00003	0.00003	0.00004
	0.00203	0.00221	0.00288

SDFFRX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ? (SE&SI) !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX0P5H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX0P5H7L	0.00093	0.00080	0.00084	0.00191	0.00073	0.06321	0.06293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX0P5H7L	0.00000	8.29631	10.91730

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7L	CK->Q (RR)	-	0.11065	0.24376	0.56856

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7L	CK->Q (RF)	-	0.09981	0.20022	0.42780
	RN->Q (FF)	(CK * D * SE * SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * D * SE * !SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * D * !SE * SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * D * !SE * !SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * !D * SE * SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * !D * SE * !SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * !D * !SE * SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.08521	0.19545	0.46012
	RN->Q (FF)	(!CK * D * SE * SI)	0.07795	0.18763	0.45132
	RN->Q (FF)	(!CK * D * SE * !SI)	0.07676	0.18595	0.44835
	RN->Q (FF)	(!CK * D * !SE * SI)	0.07795	0.18764	0.45134
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.07795	0.18764	0.45134
	RN->Q (FF)	(!CK * !D * SE * SI)	0.07795	0.18764	0.45132
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.07676	0.18595	0.44835
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.07676	0.18595	0.44835
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.07676	0.18595	0.44835

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7L	CK->QN (RR)	-	0.07668	0.21402	0.53622
	RN->QN (FR)	(CK * D * SE * SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * D * SE * !SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * D * !SE * SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * !D * SE * SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06022	0.20968	0.57017
	RN->QN (FR)	(!CK * D * SE * SI)	0.05517	0.20021	0.55748
	RN->QN (FR)	(!CK * D * SE * !SI)	0.05433	0.19865	0.55507
	RN->QN (FR)	(!CK * D * !SE * SI)	0.05518	0.20021	0.55756
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.05518	0.20021	0.55756
	RN->QN (FR)	(!CK * !D * SE * SI)	0.05517	0.20021	0.55748
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.05433	0.19864	0.55485
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.05433	0.19866	0.55548
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.05433	0.19866	0.55548

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7L	CK->QN (RF)	-	0.08086	0.20292	0.45032

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	**hold**	**CK (R)**	-0.08431	-0.04177	-0.02053
	setup	**CK (R)**	0.03925	0.06895	0.10947

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	**hold**	**CK (R)**	-0.14699	-0.05103	0.01525
	setup	**CK (R)**	0.02463	0.08774	0.20312

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX0P5H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	**hold**	**CK (R)**	-0.00798	0.01916	0.05014
	setup	**CK (R)**	0.00184	0.02755	0.05350

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	hold	CK (R)	-0.04828	-0.02959	-0.00733
	setup	CK (R)	0.04342	0.07777	0.11697

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	hold	CK (R)	-0.11252	-0.03118	0.03512
	setup	CK (R)	0.05593	0.09709	0.18331

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	hold	CK (R)	-0.09626	-0.04777	-0.02215
	setup	CK (R)	0.04457	0.07673	0.12543

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7L	hold	CK (R)	-0.14935	-0.05509	0.00839
	setup	CK (R)	0.02967	0.09332	0.20947

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7L	CK	-	0.00207	0.00224	0.00287
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00002
	CK	-	0.00237	0.00253	0.00317

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7L	CK	-	0.00204	0.00223	0.00285
	CK	-	0.00000	0.00001	0.00002
	CK	-	-0.00002	-0.00002	0.00000
	CK	-	0.00242	0.00260	0.00323
	RN	(CK * D * SE * SI)	0.00227	0.00249	0.00315
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * SE * SI)	-0.00001	0.00001	0.00001
	RN	(CK * D * SE * SI)	0.00199	0.00220	0.00287
	RN	(CK * D * SE * !SI)	0.00228	0.00249	0.00315
	RN	(CK * D * SE * !SI)	-0.00005	-0.00000	0.00002
	RN	(CK * D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * SE * !SI)	0.00198	0.00220	0.00287
	RN	(CK * D * !SE * SI)	0.00227	0.00249	0.00315
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * !SE * SI)	0.00198	0.00220	0.00287
	RN	(CK * D * !SE * !SI)	0.00227	0.00249	0.00315
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * !SE * !SI)	0.00198	0.00220	0.00287
	RN	(CK * !D * SE * SI)	0.00227	0.00249	0.00315
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * SE * SI)	-0.00001	0.00001	0.00001
	RN	(CK * !D * SE * SI)	0.00199	0.00220	0.00287
	RN	(CK * !D * SE * !SI)	0.00228	0.00249	0.00315
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00000	0.00002
	RN	(CK * !D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * !D * SE * !SI)	0.00198	0.00220	0.00287
	RN	(CK * !D * !SE * SI)	0.00228	0.00249	0.00315
	RN	(CK * !D * !SE * SI)	-0.00004	0.00000	0.00003
	RN	(CK * !D * !SE * SI)	-0.00000	0.00001	0.00002
	RN	(CK * !D * !SE * SI)	0.00198	0.00220	0.00287
	RN	(CK * !D * !SE * !SI)	0.00228	0.00249	0.00315
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * !D * !SE * !SI)	0.00198	0.00220	0.00287
	RN	(!CK * D * SE * SI)	0.00170	0.00192	0.00259
	RN	(!CK * D * SE * SI)	-0.00000	0.00002	0.00003
	RN	(!CK * D * SE * SI)	-0.00004	-0.00002	-0.00001
	RN	(!CK * D * SE * SI)	0.00144	0.00168	0.00236
	RN	(!CK * D * SE * !SI)	0.00168	0.00192	0.00258
	RN	(!CK * D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CK * D * SE * !SI)	-0.00006	-0.00002	-0.00001
	RN	(!CK * D * SE * !SI)	0.00143	0.00167	0.00237
	RN	(!CK * D * !SE * SI)	0.00170	0.00192	0.00260
	RN	(!CK * D * !SE * SI)	-0.00001	0.00002	0.00003
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00003	-0.00000
	RN	(!CK * D * !SE * SI)	0.00145	0.00168	0.00238
	RN	(!CK * D * !SE * !SI)	0.00170	0.00192	0.00260
	RN	(!CK * D * !SE * !SI)	0.00000	0.00002	0.00003
	RN	(!CK * D * !SE * !SI)	-0.00010	-0.00002	-0.00000
	RN	(!CK * D * !SE * !SI)	0.00145	0.00168	0.00238
	RN	(!CK * !D * SE * SI)	0.00170	0.00192	0.00259
	RN	(!CK * !D * SE * SI)	0.00000	0.00002	0.00003
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D * SE * SI)	0.00144	0.00168	0.00236
	RN	(!CK * !D * SE * !SI)	0.00168	0.00192	0.00258
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CK * !D * SE * !SI)	-0.00006	-0.00002	-0.00001
	RN	(!CK * !D * SE * !SI)	0.00143	0.00167	0.00237
	RN	(!CK * !D * !SE * SI)	0.00170	0.00192	0.00258
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00001	0.00003
	RN	(!CK * !D * !SE * SI)	-0.00006	-0.00002	-0.00000
	RN	(!CK * !D * !SE * SI)	0.00143	0.00167	0.00237
	RN	(!CK * !D * !SE * !SI)	0.00170	0.00192	0.00258
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CK * !D * !SE * !SI)	-0.00006	-0.00002	-0.00000
	RN	(!CK * !D * !SE * !SI)	0.00143	0.00166	0.00237

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7L	CK	-	0.00204	0.00223	0.00284
	CK	-	-0.00000	0.00001	0.00002
	CK	-	-0.00002	-0.00002	-0.00001
	CK	-	0.00242	0.00261	0.00321
	RN	(CK * D * SE * SI)	0.00226	0.00249	0.00316
	RN	(CK * D * SE * SI)	-0.00003	0.00000	0.00003
	RN	(CK * D * SE * SI)	-0.00002	0.00001	0.00004
	RN	(CK * D * SE * SI)	0.00200	0.00220	0.00289
	RN	(CK * D * SE * !SI)	0.00227	0.00250	0.00316
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * SE * !SI)	-0.00001	0.00001	0.00003
	RN	(CK * D * SE * !SI)	0.00197	0.00220	0.00289
	RN	(CK * D * !SE * SI)	0.00226	0.00249	0.00316
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * SI)	-0.00003	0.00000	0.00002
	RN	(CK * D * !SE * SI)	0.00200	0.00221	0.00289
	RN	(CK * D * !SE * !SI)	0.00228	0.00249	0.00316
	RN	(CK * D * !SE * !SI)	-0.00003	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	0.00199	0.00221	0.00289
	RN	(CK * !D * SE * SI)	0.00226	0.00249	0.00316
	RN	(CK * !D * SE * SI)	-0.00003	0.00000	0.00003
	RN	(CK * !D * SE * SI)	-0.00002	0.00001	0.00004
	RN	(CK * !D * SE * SI)	0.00200	0.00221	0.00289
	RN	(CK * !D * SE * !SI)	0.00227	0.00249	0.00316
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	0.00000	0.00001	0.00003
	RN	(CK * !D * SE * !SI)	0.00197	0.00220	0.00289
	RN	(CK * !D * !SE * SI)	0.00227	0.00250	0.00316
	RN	(CK * !D * !SE * SI)	-0.00006	-0.00000	0.00003
	RN	(CK * !D * !SE * SI)	0.00000	0.00001	0.00004
	RN	(CK * !D * !SE * SI)	0.00200	0.00220	0.00289
	RN	(CK * !D * !SE * !SI)	0.00227	0.00250	0.00316
	RN	(CK * !D * !SE * !SI)	-0.00006	-0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	0.00000	0.00001	0.00004
	RN	(CK * !D * !SE * !SI)	0.00199	0.00220	0.00289
	RN	(!CK * D * SE * SI)	0.00169	0.00192	0.00259
	RN	(!CK * D * SE * SI)	-0.00000	0.00002	0.00004
	RN	(!CK * D * SE * SI)	-0.00005	-0.00002	-0.00001
	RN	(!CK * D * SE * SI)	0.00144	0.00168	0.00237
	RN	(!CK * D * SE * !SI)	0.00168	0.00192	0.00259
	RN	(!CK * D * SE * !SI)	-0.00002	0.00001	0.00004
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00002	-0.00001
	RN	(!CK * D * SE * !SI)	0.00145	0.00167	0.00235
	RN	(!CK * D * !SE * SI)	0.00171	0.00193	0.00260
	RN	(!CK * D * !SE * SI)	-0.00001	0.00002	0.00002
	RN	(!CK * D * !SE * SI)	-0.00006	-0.00002	0.00001
	RN	(!CK * D * !SE * SI)	0.00146	0.00168	0.00237
	RN	(!CK * D * !SE * !SI)	0.00171	0.00193	0.00260
	RN	(!CK * D * !SE * !SI)	-0.00001	0.00002	0.00002
	RN	(!CK * D * !SE * !SI)	-0.00006	-0.00002	0.00001
	RN	(!CK * D * !SE * !SI)	0.00145	0.00168	0.00237
	RN	(!CK * !D * SE * SI)	0.00169	0.00192	0.00259
	RN	(!CK * !D * SE * SI)	-0.00000	0.00002	0.00004
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00002	-0.00001
	RN	(!CK * !D * SE * SI)	0.00145	0.00168	0.00236
	RN	(!CK * !D * SE * !SI)	0.00168	0.00192	0.00259
	RN	(!CK * !D * SE * !SI)	-0.00002	0.00001	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00002	-0.00001
	RN	(!CK * !D * SE * !SI)	0.00145	0.00167	0.00235
	RN	(!CK * !D * !SE * SI)	0.00168	0.00192	0.00260
	RN	(!CK * !D * !SE * SI)	-0.00005	0.00001	0.00004
	RN	(!CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00144	0.00167	0.00237
	RN	(!CK * !D * !SE * !SI)	0.00168	0.00192	0.00260
	RN	(!CK * !D * !SE * !SI)	-0.00005	0.00001	0.00004
	RN	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	RN	(!CK * !D * !SE * !SI)	0.00143	0.00167	0.00237

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7L	CK	-	0.00207	0.00224	0.00287
	CK	-	-0.00001	-0.00001	0.00001
	CK	-	0.00001	0.00002	0.00003
	CK	-	0.00236	0.00253	0.00316

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(D * RN * SE * SI)**	0.00154	0.00185	0.00292
	(D * RN * SE * SI)	0.00000	0.00001	0.00001
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00224	0.00254	0.00361
	(D * RN * SE * !SI)	0.00161	0.00192	0.00298
	(D * RN * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * RN * SE * !SI)	0.00001	0.00001	0.00001
	(D * RN * SE * !SI)	0.00228	0.00257	0.00364
	(D * RN * !SE * SI)	0.00164	0.00193	0.00300
	(D * RN * !SE * SI)	-0.00000	0.00000	0.00001
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00231	0.00262	0.00369
	(D * RN * !SE * !SI)	0.00164	0.00193	0.00300
	(D * RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00231	0.00262	0.00369
	(D * !RN * SE * SI)	0.00265	0.00295	0.00402
	(D * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * SI)	0.00002	0.00003	0.00005
	(D * !RN * SE * SI)	0.00327	0.00357	0.00465
	(D * !RN * SE * !SI)	0.00157	0.00187	0.00293
	(D * !RN * SE * !SI)	0.00000	0.00000	0.00001
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(D * !RN * SE * !SI)	0.00223	0.00253	0.00360
	(D * !RN * !SE * SI)	0.00273	0.00303	0.00410
	(D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00001
	(D * !RN * !SE * SI)	0.00002	0.00003	0.00005
	(D * !RN * !SE * SI)	0.00335	0.00365	0.00473
	(D * !RN * !SE * !SI)	0.00273	0.00303	0.00410
	(D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * !RN * !SE * !SI)	0.00002	0.00003	0.00005
	(D * !RN * !SE * !SI)	0.00335	0.00365	0.00473
	(!D * RN * SE * SI)	0.00154	0.00185	0.00292
	(!D * RN * SE * SI)	0.00000	0.00001	0.00001
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00224	0.00254	0.00361
	(!D * RN * SE * !SI)	0.00161	0.00192	0.00298
	(!D * RN * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!D * RN * SE * !SI)	0.00228	0.00257	0.00364
	(!D * RN * !SE * SI)	0.00169	0.00200	0.00307
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00000	0.00001	0.00001
	(!D * RN * !SE * SI)	0.00236	0.00265	0.00372
	(!D * RN * !SE * !SI)	0.00169	0.00200	0.00307
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00236	0.00265	0.00372
	(!D * !RN * SE * SI)	0.00265	0.00295	0.00402
	(!D * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * SI)	0.00002	0.00003	0.00005
	(!D * !RN * SE * SI)	0.00327	0.00357	0.00465
	(!D * !RN * SE * !SI)	0.00157	0.00186	0.00293
	(!D * !RN * SE * !SI)	0.00000	0.00000	0.00001
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!D * !RN * SE * !SI)	0.00223	0.00253	0.00360
	(!D * !RN * !SE * SI)	0.00165	0.00194	0.00301
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00231	0.00261	0.00368
	(!D * !RN * !SE * !SI)	0.00166	0.00195	0.00301
	(!D * !RN * !SE * !SI)	-0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	0.00231	0.00261	0.00368

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(D * RN * SE * SI)**	0.00337	0.00375	0.00511
	(D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00272	0.00311	0.00447
	(D * RN * SE * !SI)	0.00356	0.00395	0.00529
	(D * RN * SE * !SI)	-0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	-0.00000	0.00001	0.00001
	(D * RN * SE * !SI)	0.00287	0.00326	0.00460
	(D * RN * !SE * SI)	0.00330	0.00368	0.00504
	(D * RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00265	0.00304	0.00440
	(D * RN * !SE * !SI)	0.00329	0.00368	0.00504
	(D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00265	0.00304	0.00440
	(D * !RN * SE * SI)	0.00253	0.00291	0.00424
	(D * !RN * SE * SI)	0.00005	0.00006	0.00006
	(D * !RN * SE * SI)	-0.00005	-0.00003	-0.00002
	(D * !RN * SE * SI)	0.00197	0.00236	0.00369
	(D * !RN * SE * !SI)	0.00225	0.00258	0.00377
	(D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	0.00158	0.00192	0.00311
	(D * !RN * !SE * SI)	0.00245	0.00283	0.00417
	(D * !RN * !SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * !SE * SI)	-0.00005	-0.00003	-0.00002
	(D * !RN * !SE * SI)	0.00190	0.00228	0.00362
	(D * !RN * !SE * !SI)	0.00245	0.00283	0.00417
	(D * !RN * !SE * !SI)	0.00005	0.00006	0.00007
	(D * !RN * !SE * !SI)	-0.00005	-0.00003	-0.00002
	(D * !RN * !SE * !SI)	0.00190	0.00228	0.00362
	(!D * RN * SE * SI)	0.00337	0.00376	0.00511
	(!D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00272	0.00311	0.00447
	(!D * RN * SE * !SI)	0.00355	0.00395	0.00529
	(!D * RN * SE * !SI)	-0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00287	0.00326	0.00460
	(!D * RN * !SE * SI)	0.00348	0.00387	0.00520
	(!D * RN * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00000	0.00001	0.00001
	(!D * RN * !SE * SI)	0.00279	0.00318	0.00451
	(!D * RN * !SE * !SI)	0.00348	0.00387	0.00520
	(!D * RN * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00000	0.00001	0.00001
	(!D * RN * !SE * !SI)	0.00279	0.00318	0.00451
	(!D * !RN * SE * SI)	0.00253	0.00291	0.00424
	(!D * !RN * SE * SI)	0.00005	0.00006	0.00006
	(!D * !RN * SE * SI)	-0.00005	-0.00003	-0.00002
	(!D * !RN * SE * SI)	0.00198	0.00236	0.00369
	(!D * !RN * SE * !SI)	0.00225	0.00258	0.00377
	(!D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	0.00158	0.00192	0.00311
	(!D * !RN * !SE * SI)	0.00217	0.00250	0.00369
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	0.00150	0.00184	0.00303
	(!D * !RN * !SE * !SI)	0.00217	0.00250	0.00369
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	0.00150	0.00184	0.00303

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * RN * SE * SI)**	-0.00011	-0.00011	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00031	0.00032	0.00033
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * RN * !SE * SI)	0.00039	0.00056	0.00120
	(CK * RN * !SE * SI)	0.00010	0.00010	0.00011
	(CK * RN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CK * RN * !SE * SI)	0.00138	0.00156	0.00219
	(CK * RN * !SE * !SI)	0.00039	0.00056	0.00120
	(CK * RN * !SE * !SI)	0.00010	0.00010	0.00011
	(CK * RN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CK * RN * !SE * !SI)	0.00138	0.00156	0.00220
	(CK * !RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00032	0.00032	0.00033
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * !RN * !SE * SI)	0.00039	0.00056	0.00120
	(CK * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(CK * !RN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CK * !RN * !SE * SI)	0.00139	0.00156	0.00219
	(CK * !RN * !SE * !SI)	0.00039	0.00056	0.00120
	(CK * !RN * !SE * !SI)	0.00010	0.00011	0.00011
	(CK * !RN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CK * !RN * !SE * !SI)	0.00139	0.00156	0.00220
	(!CK * RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00031	0.00032	0.00033
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * RN * SE * !SI)	0.00029	0.00029	0.00029
	(!CK * RN * !SE * SI)	0.00151	0.00169	0.00233
	(!CK * RN * !SE * SI)	0.00009	0.00010	0.00010
	(!CK * RN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(!CK * RN * !SE * SI)	0.00250	0.00268	0.00332
	(!CK * RN * !SE * !SI)	0.00152	0.00169	0.00233
	(!CK * RN * !SE * !SI)	0.00009	0.00009	0.00010
	(!CK * RN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CK * RN * !SE * !SI)	0.00250	0.00267	0.00332
	(!CK * !RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00031	0.00032	0.00033
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !RN * SE * !SI)	0.00029	0.00029	0.00029
	(!CK * !RN * !SE * SI)	0.00070	0.00084	0.00139
	(!CK * !RN * !SE * SI)	0.00015	0.00016	0.00016
	(!CK * !RN * !SE * SI)	-0.00012	-0.00011	-0.00010
	(!CK * !RN * !SE * SI)	0.00180	0.00194	0.00249
	(!CK * !RN * !SE * !SI)	0.00069	0.00084	0.00139
	(!CK * !RN * !SE * !SI)	0.00016	0.00016	0.00016
	(!CK * !RN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CK * !RN * !SE * !SI)	0.00180	0.00194	0.00249

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * RN * SE * SI)**	0.00013	0.00013	0.00013
	(CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(CK * RN * !SE * SI)	0.00114	0.00134	0.00205
	(CK * RN * !SE * SI)	-0.00011	-0.00010	-0.00010
	(CK * RN * !SE * SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * SI)	0.00014	0.00033	0.00104
	(CK * RN * !SE * !SI)	0.00114	0.00134	0.00205
	(CK * RN * !SE * !SI)	-0.00011	-0.00010	-0.00010
	(CK * RN * !SE * !SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * !SI)	0.00013	0.00033	0.00104
	(CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(CK * !RN * !SE * SI)	0.00114	0.00134	0.00205
	(CK * !RN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(CK * !RN * !SE * SI)	0.00011	0.00011	0.00012
	(CK * !RN * !SE * SI)	0.00014	0.00033	0.00104
	(CK * !RN * !SE * !SI)	0.00114	0.00134	0.00205
	(CK * !RN * !SE * !SI)	-0.00011	-0.00010	-0.00010
	(CK * !RN * !SE * !SI)	0.00011	0.00011	0.00012
	(CK * !RN * !SE * !SI)	0.00014	0.00033	0.00104
	(!CK * RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(!CK * RN * !SE * SI)	0.00221	0.00242	0.00316
	(!CK * RN * !SE * SI)	-0.00010	-0.00009	-0.00009
	(!CK * RN * !SE * SI)	0.00011	0.00011	0.00011
	(!CK * RN * !SE * SI)	0.00122	0.00143	0.00217
	(!CK * RN * !SE * !SI)	0.00221	0.00242	0.00316
	(!CK * RN * !SE * !SI)	-0.00010	-0.00009	-0.00009
	(!CK * RN * !SE * !SI)	0.00010	0.00011	0.00012
	(!CK * RN * !SE * !SI)	0.00122	0.00142	0.00217
	(!CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * !RN * SE * !SI)	0.00016	0.00017	0.00017
	(!CK * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(!CK * !RN * !SE * SI)	0.00227	0.00244	0.00306
	(!CK * !RN * !SE * SI)	-0.00012	-0.00011	-0.00010
	(!CK * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(!CK * !RN * !SE * SI)	0.00126	0.00144	0.00207
	(!CK * !RN * !SE * !SI)	0.00229	0.00246	0.00308
	(!CK * !RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(!CK * !RN * !SE * !SI)	0.00010	0.00011	0.00011
	(!CK * !RN * !SE * !SI)	0.00129	0.00147	0.00210

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * SE * SI)**	0.00010	0.00045	0.00163
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00075	0.00110	0.00228
	(CK * D * SE * !SI)	0.00010	0.00045	0.00163
	(CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00075	0.00110	0.00228
	(CK * D * !SE * SI)	0.00010	0.00045	0.00163
	(CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00075	0.00110	0.00228
	(CK * D * !SE * !SI)	0.00010	0.00045	0.00163
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00075	0.00110	0.00228
	(CK * !D * SE * SI)	0.00010	0.00045	0.00163
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00075	0.00110	0.00228
	(CK * !D * SE * !SI)	0.00010	0.00045	0.00163
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00075	0.00110	0.00228
	(CK * !D * !SE * SI)	0.00010	0.00045	0.00163
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00075	0.00110	0.00228
	(CK * !D * !SE * !SI)	0.00010	0.00045	0.00163
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00075	0.00110	0.00228
	(!CK * D * SE * SI)	0.00091	0.00126	0.00243
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00000	0.00001	0.00001
	(!CK * D * SE * SI)	0.00143	0.00178	0.00295
	(!CK * D * SE * !SI)	0.00011	0.00046	0.00163
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00003
	(!CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00076	0.00111	0.00228
	(!CK * D * !SE * SI)	0.00091	0.00126	0.00243
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SI)	0.00144	0.00179	0.00295
	(!CK * D * !SE * !SI)	0.00091	0.00126	0.00243
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SI)	0.00144	0.00179	0.00295
	(!CK * !D * SE * SI)	0.00091	0.00126	0.00243
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00000	0.00001	0.00001
	(!CK * !D * SE * SI)	0.00144	0.00178	0.00295
	(!CK * !D * SE * !SI)	0.00010	0.00046	0.00163
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00076	0.00111	0.00228
	(!CK * !D * !SE * SI)	0.00011	0.00046	0.00164
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00003
	(!CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SI)	0.00076	0.00111	0.00228
	(!CK * !D * !SE * !SI)	0.00011	0.00046	0.00163
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SI)	0.00076	0.00111	0.00228

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * SE * SI)**	0.00076	0.00115	0.00243
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00011	0.00050	0.00178
	(CK * D * SE * !SI)	0.00076	0.00115	0.00243
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00011	0.00051	0.00178
	(CK * D * !SE * SI)	0.00077	0.00115	0.00243
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00001	0.00002	0.00002
	(CK * D * !SE * SI)	0.00011	0.00051	0.00178
	(CK * D * !SE * !SI)	0.00077	0.00115	0.00243
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00001	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00011	0.00051	0.00178
	(CK * !D * SE * SI)	0.00076	0.00115	0.00243
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00011	0.00050	0.00178
	(CK * !D * SE * !SI)	0.00076	0.00115	0.00243
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00011	0.00050	0.00178
	(CK * !D * !SE * SI)	0.00077	0.00115	0.00243
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00011	0.00051	0.00178
	(CK * !D * !SE * !SI)	0.00076	0.00115	0.00243
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00011	0.00050	0.00178
	(!CK * D * SE * SI)	0.00077	0.00116	0.00244
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00012	0.00051	0.00179
	(!CK * D * SE * !SI)	0.00075	0.00115	0.00243
	(!CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00011	0.00050	0.00178
	(!CK * D * !SE * SI)	0.00077	0.00116	0.00244
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00012	0.00051	0.00179
	(!CK * D * !SE * !SI)	0.00077	0.00116	0.00244
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00012	0.00051	0.00179
	(!CK * !D * SE * SI)	0.00077	0.00116	0.00244
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00012	0.00051	0.00179
	(!CK * !D * SE * !SI)	0.00075	0.00114	0.00242
	(!CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00011	0.00050	0.00178
	(!CK * !D * !SE * SI)	0.00075	0.00115	0.00243
	(!CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00011	0.00050	0.00178
	(!CK * !D * !SE * !SI)	0.00075	0.00114	0.00243
	(!CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00011	0.00050	0.00178

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * RN * SI)**	-0.00012	0.00021	0.00134
	(CK * D * RN * SI)	0.00002	0.00002	0.00003
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00108	0.00140	0.00254
	(CK * D * RN * !SI)	0.00114	0.00146	0.00263
	(CK * D * RN * !SI)	-0.00006	-0.00006	-0.00005
	(CK * D * RN * !SI)	0.00007	0.00007	0.00009
	(CK * D * RN * !SI)	0.00188	0.00220	0.00334
	(CK * D * !RN * SI)	-0.00011	0.00021	0.00134
	(CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !RN * SI)	0.00107	0.00140	0.00254
	(CK * D * !RN * !SI)	0.00114	0.00146	0.00263
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00006
	(CK * D * !RN * !SI)	0.00007	0.00007	0.00009
	(CK * D * !RN * !SI)	0.00188	0.00220	0.00334
	(CK * !D * RN * SI)	-0.00003	0.00058	0.00265
	(CK * !D * RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * RN * SI)	-0.00011	-0.00010	-0.00009
	(CK * !D * RN * SI)	0.00160	0.00221	0.00429
	(CK * !D * RN * !SI)	-0.00004	0.00030	0.00144
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00003
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00114	0.00148	0.00263
	(CK * !D * !RN * SI)	-0.00003	0.00058	0.00265
	(CK * !D * !RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * !RN * SI)	-0.00011	-0.00010	-0.00010
	(CK * !D * !RN * SI)	0.00160	0.00221	0.00429
	(CK * !D * !RN * !SI)	-0.00004	0.00030	0.00144
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00003
	(CK * !D * !RN * !SI)	-0.00002	-0.00001	-0.00000
	(CK * !D * !RN * !SI)	0.00115	0.00148	0.00262
	(!CK * D * RN * SI)	-0.00004	0.00029	0.00142
	(!CK * D * RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00002	-0.00001	-0.00000
	(!CK * D * RN * SI)	0.00115	0.00148	0.00262
	(!CK * D * RN * !SI)	0.00227	0.00261	0.00376
	(!CK * D * RN * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * D * RN * !SI)	0.00004	0.00006	0.00006
	(!CK * D * RN * !SI)	0.00303	0.00337	0.00452
	(!CK * D * !RN * SI)	-0.00004	0.00029	0.00142
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00116	0.00148	0.00262
	(!CK * D * !RN * !SI)	0.00236	0.00267	0.00380
	(!CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00005
	(!CK * D * !RN * !SI)	0.00007	0.00009	0.00011
	(!CK * D * !RN * !SI)	0.00303	0.00335	0.00447
	(!CK * !D * RN * SI)	0.00119	0.00178	0.00383
	(!CK * !D * RN * SI)	0.00008	0.00009	0.00010
	(!CK * !D * RN * SI)	-0.00010	-0.00010	-0.00007
	(!CK * !D * RN * SI)	0.00279	0.00340	0.00545
	(!CK * !D * RN * !SI)	0.00004	0.00038	0.00152
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00004
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * RN * !SI)	0.00122	0.00157	0.00271
	(!CK * !D * !RN * SI)	0.00037	0.00092	0.00283
	(!CK * !D * !RN * SI)	0.00015	0.00015	0.00016
	(!CK * !D * !RN * SI)	-0.00014	-0.00014	-0.00013
	(!CK * !D * !RN * SI)	0.00209	0.00265	0.00457
	(!CK * !D * !RN * !SI)	0.00004	0.00038	0.00152
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !RN * !SI)	0.00123	0.00157	0.00271

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * RN * SI)**	0.00113	0.00151	0.00277
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00001	0.00002	0.00002
	(CK * D * RN * SI)	-0.00006	0.00032	0.00157
	(CK * D * RN * !SI)	0.00166	0.00205	0.00335
	(CK * D * RN * !SI)	0.00005	0.00006	0.00008
	(CK * D * RN * !SI)	-0.00007	-0.00007	-0.00007
	(CK * D * RN * !SI)	0.00091	0.00131	0.00266
	(CK * D * !RN * SI)	0.00113	0.00151	0.00277
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00001	0.00002	0.00002
	(CK * D * !RN * SI)	-0.00006	0.00032	0.00157
	(CK * D * !RN * !SI)	0.00166	0.00205	0.00335
	(CK * D * !RN * !SI)	0.00006	0.00007	0.00008
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00006
	(CK * D * !RN * !SI)	0.00091	0.00131	0.00266
	(CK * !D * RN * SI)	0.00175	0.00243	0.00469
	(CK * !D * RN * SI)	-0.00011	-0.00010	-0.00010
	(CK * !D * RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * RN * SI)	0.00011	0.00080	0.00305
	(CK * !D * RN * !SI)	0.00105	0.00142	0.00267
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00003
	(CK * !D * RN * !SI)	-0.00014	0.00023	0.00148
	(CK * !D * !RN * SI)	0.00175	0.00243	0.00469
	(CK * !D * !RN * SI)	-0.00011	-0.00010	-0.00010
	(CK * !D * !RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * !RN * SI)	0.00011	0.00079	0.00305
	(CK * !D * !RN * !SI)	0.00105	0.00142	0.00267
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00014	0.00023	0.00148
	(!CK * D * RN * SI)	0.00106	0.00143	0.00268
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00014	0.00024	0.00149
	(!CK * D * RN * !SI)	0.00268	0.00308	0.00439
	(!CK * D * RN * !SI)	0.00004	0.00005	0.00005
	(!CK * D * RN * !SI)	-0.00006	-0.00006	-0.00004
	(!CK * D * RN * !SI)	0.00191	0.00231	0.00366
	(!CK * D * !RN * SI)	0.00106	0.00143	0.00268
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00014	0.00024	0.00149
	(!CK * D * !RN * !SI)	0.00186	0.00225	0.00354
	(!CK * D * !RN * !SI)	0.00011	0.00012	0.00013
	(!CK * D * !RN * !SI)	-0.00011	-0.00009	-0.00007
	(!CK * D * !RN * !SI)	0.00122	0.00161	0.00293
	(!CK * !D * RN * SI)	0.00274	0.00341	0.00567
	(!CK * !D * RN * SI)	-0.00010	-0.00009	-0.00008
	(!CK * !D * RN * SI)	0.00009	0.00011	0.00012
	(!CK * !D * RN * SI)	0.00112	0.00179	0.00406
	(!CK * !D * RN * !SI)	0.00097	0.00134	0.00259
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	0.00000
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * RN * !SI)	-0.00023	0.00015	0.00140
	(!CK * !D * !RN * SI)	0.00285	0.00348	0.00556
	(!CK * !D * !RN * SI)	-0.00012	-0.00010	-0.00009
	(!CK * !D * !RN * SI)	0.00013	0.00014	0.00014
	(!CK * !D * !RN * SI)	0.00118	0.00179	0.00388
	(!CK * !D * !RN * !SI)	0.00097	0.00134	0.00259
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	0.00000
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !RN * !SI)	-0.00023	0.00015	0.00140

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * RN * SE)**	0.00009	0.00025	0.00082
	(CK * D * RN * SE)	0.00010	0.00010	0.00011
	(CK * D * RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * D * RN * SE)	0.00103	0.00119	0.00176
	(CK * D * RN * !SE)	-0.00016	-0.00016	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00021	0.00022	0.00022
	(CK * D * !RN * SE)	0.00009	0.00025	0.00082
	(CK * D * !RN * SE)	0.00010	0.00010	0.00011
	(CK * D * !RN * SE)	-0.00011	-0.00010	-0.00010
	(CK * D * !RN * SE)	0.00103	0.00119	0.00176
	(CK * D * !RN * !SE)	-0.00016	-0.00016	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00021	0.00022	0.00022
	(CK * !D * RN * SE)	0.00010	0.00025	0.00082
	(CK * !D * RN * SE)	0.00010	0.00010	0.00010
	(CK * !D * RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * !D * RN * SE)	0.00104	0.00119	0.00176
	(CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * !RN * SE)	0.00010	0.00025	0.00082
	(CK * !D * !RN * SE)	0.00010	0.00010	0.00011
	(CK * !D * !RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * !D * !RN * SE)	0.00104	0.00119	0.00176
	(CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * !RN * !SE)	0.00022	0.00022	0.00022
	(!CK * D * RN * SE)	0.00122	0.00138	0.00197
	(!CK * D * RN * SE)	0.00009	0.00009	0.00010
	(!CK * D * RN * SE)	-0.00010	-0.00010	-0.00009
	(!CK * D * RN * SE)	0.00216	0.00231	0.00290
	(!CK * D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00021	0.00022	0.00022
	(!CK * D * !RN * SE)	0.00040	0.00053	0.00101
	(!CK * D * !RN * SE)	0.00015	0.00015	0.00016
	(!CK * D * !RN * SE)	-0.00011	-0.00010	-0.00010
	(!CK * D * !RN * SE)	0.00144	0.00157	0.00205
	(!CK * D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00021	0.00022	0.00023
	(!CK * !D * RN * SE)	0.00123	0.00138	0.00197
	(!CK * !D * RN * SE)	0.00008	0.00009	0.00010
	(!CK * !D * RN * SE)	-0.00011	-0.00010	-0.00010
	(!CK * !D * RN * SE)	0.00216	0.00231	0.00290
	(!CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	0.00000
	(!CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(!CK * !D * !RN * SE)	0.00040	0.00053	0.00101
	(!CK * !D * !RN * SE)	0.00015	0.00015	0.00015
	(!CK * !D * !RN * SE)	-0.00012	-0.00011	-0.00010
	(!CK * !D * !RN * SE)	0.00145	0.00157	0.00206
	(!CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	0.00000
	(!CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * !RN * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7L	**(CK * D * RN * SE)**	0.00139	0.00156	0.00218
	(CK * D * RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * D * RN * SE)	0.00010	0.00011	0.00011
	(CK * D * RN * SE)	0.00045	0.00062	0.00125
	(CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00020	-0.00019	-0.00019
	(CK * D * !RN * SE)	0.00139	0.00156	0.00218
	(CK * D * !RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * D * !RN * SE)	0.00010	0.00011	0.00011
	(CK * D * !RN * SE)	0.00045	0.00062	0.00125
	(CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00020	-0.00019	-0.00019
	(CK * !D * RN * SE)	0.00139	0.00155	0.00218
	(CK * !D * RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * !D * RN * SE)	0.00010	0.00011	0.00011
	(CK * !D * RN * SE)	0.00045	0.00062	0.00124
	(CK * !D * RN * !SE)	0.00018	0.00018	0.00020
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00019
	(CK * !D * !RN * SE)	0.00139	0.00156	0.00218
	(CK * !D * !RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * !D * !RN * SE)	0.00010	0.00011	0.00011
	(CK * !D * !RN * SE)	0.00045	0.00062	0.00125
	(CK * !D * !RN * !SE)	0.00018	0.00018	0.00020
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00019
	(!CK * D * RN * SE)	0.00247	0.00265	0.00333
	(!CK * D * RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * D * RN * SE)	0.00010	0.00010	0.00010
	(!CK * D * RN * SE)	0.00154	0.00172	0.00240
	(!CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	-0.00020	-0.00019	-0.00019
	(!CK * D * !RN * SE)	0.00252	0.00266	0.00321
	(!CK * D * !RN * SE)	-0.00010	-0.00010	-0.00010
	(!CK * D * !RN * SE)	0.00010	0.00010	0.00011
	(!CK * D * !RN * SE)	0.00157	0.00172	0.00228
	(!CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * !SE)	-0.00020	-0.00019	-0.00019
	(!CK * !D * RN * SE)	0.00247	0.00265	0.00332
	(!CK * !D * RN * SE)	-0.00009	-0.00009	-0.00008
	(!CK * !D * RN * SE)	0.00010	0.00010	0.00011
	(!CK * !D * RN * SE)	0.00153	0.00172	0.00240
	(!CK * !D * RN * !SE)	0.00018	0.00018	0.00020
	(!CK * !D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00018
	(!CK * !D * !RN * SE)	0.00254	0.00268	0.00323
	(!CK * !D * !RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * !D * !RN * SE)	0.00010	0.00011	0.00012
	(!CK * !D * !RN * SE)	0.00161	0.00175	0.00231
	(!CK * !D * !RN * !SE)	0.00018	0.00018	0.00019
	(!CK * !D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00019

SDFFRX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX1H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX1H7L	0.00095	0.00080	0.00083	0.00192	0.00073	0.07483	0.07468

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX1H7L	0.00000	8.54216	11.25830

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7L	CK->Q (RR)	-	0.11212	0.24510	0.57020

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7L	CK->Q (RF)	-	0.09890	0.19997	0.42900
	RN->Q (FF)	(CK * D * SE * SI)	0.08650	0.19722	0.46270
	RN->Q (FF)	(CK * D * SE * !SI)	0.08651	0.19722	0.46285
	RN->Q (FF)	(CK * D * !SE * SI)	0.08650	0.19722	0.46270
	RN->Q (FF)	(CK * D * !SE * !SI)	0.08650	0.19722	0.46270
	RN->Q (FF)	(CK * !D * SE * SI)	0.08650	0.19722	0.46270
	RN->Q (FF)	(CK * !D * SE * !SI)	0.08651	0.19722	0.46281
	RN->Q (FF)	(CK * !D * !SE * SI)	0.08651	0.19722	0.46287
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.08651	0.19722	0.46287
	RN->Q (FF)	(!CK * D * SE * SI)	0.07863	0.18883	0.45385
	RN->Q (FF)	(!CK * D * SE * !SI)	0.07737	0.18705	0.45043
	RN->Q (FF)	(!CK * D * !SE * SI)	0.07863	0.18883	0.45362
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.07863	0.18883	0.45362
	RN->Q (FF)	(!CK * !D * SE * SI)	0.07863	0.18883	0.45385
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.07737	0.18705	0.45043
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.07737	0.18705	0.45043
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.07737	0.18705	0.45043

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7L	CK->QN (RR)	-	0.07506	0.21274	0.53616
	RN->QN (FR)	(CK * D * SE * SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(CK * D * SE * !SI)	0.06011	0.21048	0.57185
	RN->QN (FR)	(CK * D * !SE * SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(CK * !D * SE * SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06011	0.21048	0.57185
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06010	0.21048	0.57185
	RN->QN (FR)	(!CK * D * SE * SI)	0.05468	0.20056	0.55937
	RN->QN (FR)	(!CK * D * SE * !SI)	0.05382	0.19891	0.55598
	RN->QN (FR)	(!CK * D * !SE * SI)	0.05468	0.20056	0.55938
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.05468	0.20056	0.55938
	RN->QN (FR)	(!CK * !D * SE * SI)	0.05468	0.20056	0.55937
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.05382	0.19891	0.55598
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.05382	0.19892	0.55610
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.05382	0.19892	0.55610

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7L	CK->QN (RF)	-	0.08111	0.20439	0.45352

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	**hold**	**CK (R)**	-0.08256	-0.04293	-0.01997
	setup	**CK (R)**	0.03925	0.06926	0.11259

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	**hold**	**CK (R)**	-0.13866	-0.04694	0.01500
	setup	**CK (R)**	0.02204	0.08425	0.19833

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	**hold**	**CK (R)**	-0.00798	0.01908	0.05014
	setup	**CK (R)**	0.00347	0.02864	0.05511

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	hold	CK (R)	-0.05169	-0.02971	-0.00529
	setup	CK (R)	0.04464	0.07659	0.11725

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	hold	CK (R)	-0.10504	-0.02706	0.03794
	setup	CK (R)	0.05457	0.09687	0.17893

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	hold	CK (R)	-0.09743	-0.04845	-0.02426
	setup	CK (R)	0.04493	0.07683	0.12642

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7L	hold	CK (R)	-0.14229	-0.05083	0.01308
	setup	CK (R)	0.02641	0.08986	0.20246

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7L	CK	-	0.00219	0.00236	0.00300
	CK	-	-0.00001	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00008
	CK	-	0.00248	0.00265	0.00330

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7L	CK	-	0.00213	0.00231	0.00294
	CK	-	0.00000	0.00001	0.00001
	CK	-	-0.00002	-0.00002	0.00000
	CK	-	0.00251	0.00269	0.00331
	RN	(CK * D * SE * SI)	0.00232	0.00255	0.00321
	RN	(CK * D * SE * SI)	-0.00002	0.00001	0.00003
	RN	(CK * D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * SI)	0.00204	0.00226	0.00293
	RN	(CK * D * SE * !SI)	0.00232	0.00255	0.00321
	RN	(CK * D * SE * !SI)	-0.00002	0.00001	0.00003
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * !SI)	0.00204	0.00226	0.00293
	RN	(CK * D * !SE * SI)	0.00232	0.00255	0.00321
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * SI)	0.00204	0.00226	0.00293
	RN	(CK * D * !SE * !SI)	0.00232	0.00255	0.00321
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	0.00204	0.00226	0.00293
	RN	(CK * !D * SE * SI)	0.00232	0.00255	0.00321
	RN	(CK * !D * SE * SI)	-0.00002	0.00001	0.00003
	RN	(CK * !D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * SE * SI)	0.00204	0.00226	0.00293
	RN	(CK * !D * SE * !SI)	0.00232	0.00255	0.00321
	RN	(CK * !D * SE * !SI)	-0.00002	0.00001	0.00003
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	0.00204	0.00226	0.00294
	RN	(CK * !D * !SE * SI)	0.00229	0.00255	0.00321
	RN	(CK * !D * !SE * SI)	-0.00002	0.00001	0.00009
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	0.00203	0.00226	0.00293
	RN	(CK * !D * !SE * !SI)	0.00228	0.00255	0.00321
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00001	0.00009
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	0.00203	0.00226	0.00293
	RN	(!CK * D * SE * SI)	0.00177	0.00199	0.00266
	RN	(!CK * D * SE * SI)	-0.00002	0.00002	0.00004
	RN	(!CK * D * SE * SI)	-0.00004	-0.00002	0.00001
	RN	(!CK * D * SE * SI)	0.00152	0.00175	0.00244
	RN	(!CK * D * SE * !SI)	0.00175	0.00198	0.00265
	RN	(!CK * D * SE * !SI)	-0.00000	0.00002	0.00003
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00002	-0.00001
	RN	(!CK * D * SE * !SI)	0.00149	0.00173	0.00240
	RN	(!CK * D * !SE * SI)	0.00176	0.00199	0.00266
	RN	(!CK * D * !SE * SI)	0.00001	0.00002	0.00003
	RN	(!CK * D * !SE * SI)	-0.00004	-0.00002	0.00002
	RN	(!CK * D * !SE * SI)	0.00151	0.00175	0.00244
	RN	(!CK * D * !SE * !SI)	0.00176	0.00199	0.00266
	RN	(!CK * D * !SE * !SI)	0.00001	0.00002	0.00003
	RN	(!CK * D * !SE * !SI)	-0.00004	-0.00002	0.00002
	RN	(!CK * D * !SE * !SI)	0.00151	0.00175	0.00243
	RN	(!CK * !D * SE * SI)	0.00177	0.00199	0.00266
	RN	(!CK * !D * SE * SI)	0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * SI)	-0.00004	-0.00002	0.00001
	RN	(!CK * !D * SE * SI)	0.00152	0.00175	0.00244
	RN	(!CK * !D * SE * !SI)	0.00175	0.00198	0.00265
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00002	0.00003
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00002	-0.00001
	RN	(!CK * !D * SE * !SI)	0.00149	0.00173	0.00240
	RN	(!CK * !D * !SE * SI)	0.00174	0.00198	0.00265
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00002	0.00004
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00002	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00151	0.00173	0.00240
	RN	(!CK * !D * !SE * !SI)	0.00174	0.00198	0.00265
	RN	(!CK * !D * !SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00002	-0.00002
	RN	(!CK * !D * !SE * !SI)	0.00151	0.00173	0.00240

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7L	CK	-	0.00210	0.00231	0.00293
	CK	-	0.00000	0.00001	0.00003
	CK	-	-0.00002	-0.00002	-0.00000
	CK	-	0.00249	0.00269	0.00332
	RN	(CK * D * SE * SI)	0.00233	0.00255	0.00322
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00003
	RN	(CK * D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * SI)	0.00205	0.00227	0.00295
	RN	(CK * D * SE * !SI)	0.00234	0.00255	0.00322
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * SE * !SI)	-0.00001	0.00000	0.00003
	RN	(CK * D * SE * !SI)	0.00204	0.00227	0.00295
	RN	(CK * D * !SE * SI)	0.00234	0.00255	0.00322
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * SI)	-0.00002	0.00001	0.00008
	RN	(CK * D * !SE * SI)	0.00202	0.00227	0.00295
	RN	(CK * D * !SE * !SI)	0.00234	0.00255	0.00322
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	0.00204	0.00227	0.00295
	RN	(CK * !D * SE * SI)	0.00233	0.00255	0.00322
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00003
	RN	(CK * !D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * SE * SI)	0.00205	0.00227	0.00295
	RN	(CK * !D * SE * !SI)	0.00234	0.00255	0.00322
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	-0.00001	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	0.00204	0.00226	0.00295
	RN	(CK * !D * !SE * SI)	0.00233	0.00255	0.00322
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	0.00205	0.00227	0.00295
	RN	(CK * !D * !SE * !SI)	0.00233	0.00255	0.00322
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	0.00205	0.00227	0.00295
	RN	(!CK * D * SE * SI)	0.00177	0.00199	0.00267
	RN	(!CK * D * SE * SI)	0.00001	0.00002	0.00004
	RN	(!CK * D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(!CK * D * SE * SI)	0.00152	0.00175	0.00245
	RN	(!CK * D * SE * !SI)	0.00175	0.00198	0.00265
	RN	(!CK * D * SE * !SI)	-0.00001	0.00001	0.00004
	RN	(!CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	RN	(!CK * D * SE * !SI)	0.00150	0.00173	0.00240
	RN	(!CK * D * !SE * SI)	0.00176	0.00199	0.00267
	RN	(!CK * D * !SE * SI)	0.00001	0.00002	0.00004
	RN	(!CK * D * !SE * SI)	-0.00006	-0.00003	-0.00000
	RN	(!CK * D * !SE * SI)	0.00153	0.00175	0.00245
	RN	(!CK * D * !SE * !SI)	0.00176	0.00199	0.00267
	RN	(!CK * D * !SE * !SI)	0.00001	0.00002	0.00004
	RN	(!CK * D * !SE * !SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * D * !SE * !SI)	0.00153	0.00175	0.00245
	RN	(!CK * !D * SE * SI)	0.00177	0.00199	0.00267
	RN	(!CK * !D * SE * SI)	-0.00001	0.00002	0.00003
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(!CK * !D * SE * SI)	0.00151	0.00175	0.00245
	RN	(!CK * !D * SE * !SI)	0.00175	0.00198	0.00265
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00150	0.00173	0.00240
	RN	(!CK * !D * !SE * SI)	0.00174	0.00198	0.00266
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00002	0.00005
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00001
	RN	(!CK * !D * !SE * SI)	0.00151	0.00173	0.00241
	RN	(!CK * !D * !SE * !SI)	0.00174	0.00198	0.00266
	RN	(!CK * !D * !SE * !SI)	-0.00002	0.00001	0.00005
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	RN	(!CK * !D * !SE * !SI)	0.00151	0.00173	0.00241

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7L	CK	-	0.00218	0.00235	0.00300
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00002
	CK	-	0.00248	0.00265	0.00329

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(D * RN * SE * SI)**	0.00165	0.00195	0.00301
	(D * RN * SE * SI)	0.00000	0.00001	0.00001
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00235	0.00264	0.00371
	(D * RN * SE * !SI)	0.00167	0.00197	0.00303
	(D * RN * SE * !SI)	0.00000	0.00000	0.00001
	(D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * SE * !SI)	0.00234	0.00263	0.00369
	(D * RN * !SE * SI)	0.00174	0.00203	0.00310
	(D * RN * !SE * SI)	0.00000	0.00000	0.00001
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00243	0.00273	0.00379
	(D * RN * !SE * !SI)	0.00174	0.00203	0.00310
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00001
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00244	0.00273	0.00379
	(D * !RN * SE * SI)	0.00270	0.00299	0.00406
	(D * !RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(D * !RN * SE * SI)	0.00002	0.00003	0.00003
	(D * !RN * SE * SI)	0.00334	0.00363	0.00470
	(D * !RN * SE * !SI)	0.00161	0.00191	0.00297
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00229	0.00258	0.00364
	(D * !RN * !SE * SI)	0.00278	0.00308	0.00414
	(D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * !SE * SI)	0.00002	0.00003	0.00004
	(D * !RN * !SE * SI)	0.00343	0.00372	0.00478
	(D * !RN * !SE * !SI)	0.00278	0.00308	0.00414
	(D * !RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * !RN * !SE * !SI)	0.00002	0.00003	0.00004
	(D * !RN * !SE * !SI)	0.00343	0.00371	0.00478
	(!D * RN * SE * SI)	0.00166	0.00195	0.00301
	(!D * RN * SE * SI)	0.00000	0.00001	0.00001
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00235	0.00264	0.00371
	(!D * RN * SE * !SI)	0.00166	0.00197	0.00303
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00001
	(!D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00234	0.00263	0.00369
	(!D * RN * !SE * SI)	0.00175	0.00205	0.00311
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00001
	(!D * RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00242	0.00271	0.00378
	(!D * RN * !SE * !SI)	0.00175	0.00205	0.00311
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00242	0.00271	0.00377
	(!D * !RN * SE * SI)	0.00270	0.00299	0.00406
	(!D * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * SI)	0.00002	0.00003	0.00004
	(!D * !RN * SE * SI)	0.00334	0.00363	0.00470
	(!D * !RN * SE * !SI)	0.00161	0.00191	0.00297
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00229	0.00258	0.00364
	(!D * !RN * !SE * SI)	0.00169	0.00199	0.00305
	(!D * !RN * !SE * SI)	-0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00237	0.00267	0.00373
	(!D * !RN * !SE * !SI)	0.00169	0.00199	0.00305
	(!D * !RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00237	0.00267	0.00373

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(D * RN * SE * SI)**	0.00341	0.00380	0.00516
	(D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * SE * SI)	0.00276	0.00315	0.00450
	(D * RN * SE * !SI)	0.00367	0.00406	0.00539
	(D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * !SI)	-0.00000	0.00001	0.00002
	(D * RN * SE * !SI)	0.00296	0.00336	0.00469
	(D * RN * !SE * SI)	0.00334	0.00373	0.00509
	(D * RN * !SE * SI)	-0.00001	-0.00000	0.00001
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00268	0.00307	0.00443
	(D * RN * !SE * !SI)	0.00334	0.00373	0.00509
	(D * RN * !SE * !SI)	-0.00001	-0.00000	0.00001
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00268	0.00307	0.00443
	(D * !RN * SE * SI)	0.00255	0.00293	0.00426
	(D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * SE * SI)	-0.00003	-0.00003	-0.00002
	(D * !RN * SE * SI)	0.00201	0.00238	0.00370
	(D * !RN * SE * !SI)	0.00231	0.00264	0.00382
	(D * !RN * SE * !SI)	-0.00002	-0.00001	0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	0.00163	0.00197	0.00315
	(D * !RN * !SE * SI)	0.00247	0.00285	0.00419
	(D * !RN * !SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * !SE * SI)	-0.00004	-0.00003	-0.00002
	(D * !RN * !SE * SI)	0.00191	0.00230	0.00363
	(D * !RN * !SE * !SI)	0.00247	0.00285	0.00419
	(D * !RN * !SE * !SI)	0.00004	0.00006	0.00007
	(D * !RN * !SE * !SI)	-0.00004	-0.00003	-0.00002
	(D * !RN * !SE * !SI)	0.00191	0.00230	0.00363
	(!D * RN * SE * SI)	0.00341	0.00380	0.00516
	(!D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00276	0.00315	0.00450
	(!D * RN * SE * !SI)	0.00367	0.00406	0.00539
	(!D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00296	0.00336	0.00469
	(!D * RN * !SE * SI)	0.00358	0.00397	0.00530
	(!D * RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00001	0.00000	0.00001
	(!D * RN * !SE * SI)	0.00289	0.00328	0.00461
	(!D * RN * !SE * !SI)	0.00358	0.00397	0.00530
	(!D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00001	0.00000	0.00001
	(!D * RN * !SE * !SI)	0.00289	0.00328	0.00460
	(!D * !RN * SE * SI)	0.00255	0.00293	0.00426
	(!D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(!D * !RN * SE * SI)	-0.00004	-0.00003	-0.00002
	(!D * !RN * SE * SI)	0.00201	0.00238	0.00370
	(!D * !RN * SE * !SI)	0.00231	0.00264	0.00382
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	0.00163	0.00197	0.00314
	(!D * !RN * !SE * SI)	0.00223	0.00256	0.00374
	(!D * !RN * !SE * SI)	-0.00002	-0.00001	0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	0.00155	0.00188	0.00306
	(!D * !RN * !SE * !SI)	0.00223	0.00256	0.00374
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	0.00155	0.00188	0.00306

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(CK * RN * SE * SI)**	-0.00011	-0.00011	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00032	0.00032	0.00033
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * RN * !SE * SI)	0.00036	0.00053	0.00117
	(CK * RN * !SE * SI)	0.00010	0.00011	0.00011
	(CK * RN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CK * RN * !SE * SI)	0.00136	0.00154	0.00217
	(CK * RN * !SE * !SI)	0.00036	0.00053	0.00117
	(CK * RN * !SE * !SI)	0.00010	0.00011	0.00011
	(CK * RN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CK * RN * !SE * !SI)	0.00136	0.00154	0.00217
	(CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00032	0.00032	0.00033
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * !RN * !SE * SI)	0.00036	0.00053	0.00117
	(CK * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(CK * !RN * !SE * SI)	-0.00012	-0.00011	-0.00011
	(CK * !RN * !SE * SI)	0.00136	0.00154	0.00217
	(CK * !RN * !SE * !SI)	0.00036	0.00053	0.00118
	(CK * !RN * !SE * !SI)	0.00010	0.00011	0.00011
	(CK * !RN * !SE * !SI)	-0.00012	-0.00011	-0.00011
	(CK * !RN * !SE * !SI)	0.00136	0.00153	0.00217
	(!CK * RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00031	0.00032	0.00033
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(!CK * RN * !SE * SI)	0.00152	0.00169	0.00235
	(!CK * RN * !SE * SI)	0.00009	0.00010	0.00010
	(!CK * RN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(!CK * RN * !SE * SI)	0.00250	0.00268	0.00333
	(!CK * RN * !SE * !SI)	0.00152	0.00169	0.00235
	(!CK * RN * !SE * !SI)	0.00009	0.00010	0.00010
	(!CK * RN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CK * RN * !SE * !SI)	0.00251	0.00268	0.00333
	(!CK * !RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00031	0.00032	0.00033
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !RN * SE * !SI)	0.00029	0.00029	0.00029
	(!CK * !RN * !SE * SI)	0.00068	0.00082	0.00137
	(!CK * !RN * !SE * SI)	0.00016	0.00016	0.00016
	(!CK * !RN * !SE * SI)	-0.00012	-0.00011	-0.00010
	(!CK * !RN * !SE * SI)	0.00179	0.00194	0.00248
	(!CK * !RN * !SE * !SI)	0.00068	0.00082	0.00137
	(!CK * !RN * !SE * !SI)	0.00016	0.00016	0.00016
	(!CK * !RN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(!CK * !RN * !SE * !SI)	0.00179	0.00193	0.00248

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(CK * RN * SE * SI)**	0.00013	0.00013	0.00013
	(CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(CK * RN * !SE * SI)	0.00113	0.00133	0.00204
	(CK * RN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(CK * RN * !SE * SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * SI)	0.00012	0.00032	0.00104
	(CK * RN * !SE * !SI)	0.00113	0.00133	0.00204
	(CK * RN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(CK * RN * !SE * !SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * !SI)	0.00012	0.00032	0.00103
	(CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(CK * !RN * !SE * SI)	0.00113	0.00133	0.00204
	(CK * !RN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(CK * !RN * !SE * SI)	0.00011	0.00011	0.00012
	(CK * !RN * !SE * SI)	0.00012	0.00032	0.00104
	(CK * !RN * !SE * !SI)	0.00113	0.00133	0.00204
	(CK * !RN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(CK * !RN * !SE * !SI)	0.00011	0.00011	0.00012
	(CK * !RN * !SE * !SI)	0.00012	0.00032	0.00104
	(!CK * RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * RN * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(!CK * RN * !SE * SI)	0.00225	0.00245	0.00321
	(!CK * RN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(!CK * RN * !SE * SI)	0.00011	0.00011	0.00011
	(!CK * RN * !SE * SI)	0.00125	0.00146	0.00221
	(!CK * RN * !SE * !SI)	0.00225	0.00245	0.00321
	(!CK * RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(!CK * RN * !SE * !SI)	0.00011	0.00011	0.00011
	(!CK * RN * !SE * !SI)	0.00125	0.00145	0.00221
	(!CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(!CK * !RN * !SE * SI)	0.00230	0.00247	0.00309
	(!CK * !RN * !SE * SI)	-0.00012	-0.00011	-0.00010
	(!CK * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(!CK * !RN * !SE * SI)	0.00129	0.00146	0.00210
	(!CK * !RN * !SE * !SI)	0.00232	0.00248	0.00311
	(!CK * !RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(!CK * !RN * !SE * !SI)	0.00011	0.00011	0.00011
	(!CK * !RN * !SE * !SI)	0.00132	0.00149	0.00213

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	(CK * D * SE * SI)	0.00009	0.00045	0.00163
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * SI)	0.00073	0.00109	0.00227
	(CK * D * SE * !SI)	0.00009	0.00045	0.00163
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * !SI)	0.00074	0.00109	0.00227
	(CK * D * !SE * SI)	0.00010	0.00045	0.00163
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00073	0.00109	0.00227
	(CK * D * !SE * !SI)	0.00010	0.00045	0.00163
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00073	0.00109	0.00227
	(CK * !D * SE * SI)	0.00009	0.00045	0.00163
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * SI)	0.00073	0.00109	0.00227
	(CK * !D * SE * !SI)	0.00009	0.00045	0.00162
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * !SI)	0.00074	0.00109	0.00227
	(CK * !D * !SE * SI)	0.00009	0.00045	0.00163
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * SI)	0.00074	0.00109	0.00227
	(CK * !D * !SE * !SI)	0.00009	0.00045	0.00163
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * !SI)	0.00074	0.00109	0.00227
	(!CK * D * SE * SI)	0.00092	0.00127	0.00244
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	-0.00000	0.00001	0.00001
	(!CK * D * SE * SI)	0.00143	0.00179	0.00295
	(!CK * D * SE * !SI)	0.00010	0.00046	0.00163
	(!CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * SE * !SI)	0.00074	0.00110	0.00227
	(!CK * D * !SE * SI)	0.00092	0.00128	0.00244
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * SI)	0.00143	0.00179	0.00296
	(!CK * D * !SE * !SI)	0.00092	0.00128	0.00244
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * !SI)	0.00143	0.00179	0.00296
	(!CK * !D * SE * SI)	0.00092	0.00127	0.00244
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	-0.00000	0.00001	0.00001
	(!CK * !D * SE * SI)	0.00143	0.00179	0.00295
	(!CK * !D * SE * !SI)	0.00010	0.00046	0.00163
	(!CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * SE * !SI)	0.00074	0.00110	0.00227
	(!CK * !D * !SE * SI)	0.00010	0.00046	0.00163
	(!CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SE * SI)	0.00074	0.00110	0.00227
	(!CK * !D * !SE * !SI)	0.00010	0.00046	0.00163
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SE * !SI)	0.00074	0.00110	0.00227

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(CK * D * SE * SI)**	0.00076	0.00115	0.00243
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	0.00002	0.00002	0.00003
	(CK * D * SE * SI)	0.00012	0.00051	0.00179
	(CK * D * SE * !SI)	0.00076	0.00115	0.00243
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * !SI)	0.00002	0.00002	0.00003
	(CK * D * SE * !SI)	0.00012	0.00051	0.00179
	(CK * D * !SE * SI)	0.00076	0.00115	0.00243
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * SI)	0.00002	0.00002	0.00003
	(CK * D * !SE * SI)	0.00012	0.00051	0.00179
	(CK * D * !SE * !SI)	0.00076	0.00115	0.00243
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00003
	(CK * D * !SE * !SI)	0.00012	0.00051	0.00179
	(CK * !D * SE * SI)	0.00076	0.00115	0.00243
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	0.00002	0.00002	0.00003
	(CK * !D * SE * SI)	0.00012	0.00051	0.00179
	(CK * !D * SE * !SI)	0.00076	0.00115	0.00243
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00003
	(CK * !D * SE * !SI)	0.00012	0.00051	0.00179
	(CK * !D * !SE * SI)	0.00076	0.00115	0.00243
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00003
	(CK * !D * !SE * SI)	0.00012	0.00051	0.00179
	(CK * !D * !SE * !SI)	0.00076	0.00115	0.00243
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00003
	(CK * !D * !SE * !SI)	0.00012	0.00051	0.00179
	(!CK * D * SE * SI)	0.00077	0.00116	0.00244
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00013	0.00052	0.00180
	(!CK * D * SE * !SI)	0.00076	0.00115	0.00243
	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00011	0.00050	0.00178
	(!CK * D * !SE * SI)	0.00077	0.00116	0.00244
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00013	0.00052	0.00180
	(!CK * D * !SE * !SI)	0.00077	0.00116	0.00244
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00013	0.00052	0.00180
	(!CK * !D * SE * SI)	0.00077	0.00116	0.00244
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00013	0.00052	0.00180
	(!CK * !D * SE * !SI)	0.00075	0.00115	0.00243
	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00011	0.00050	0.00178
	(!CK * !D * !SE * SI)	0.00076	0.00115	0.00243
	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00011	0.00050	0.00179
	(!CK * !D * !SE * !SI)	0.00076	0.00115	0.00243
	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00011	0.00050	0.00178

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(CK * D * RN * SI)**	-0.00012	0.00021	0.00134
	(CK * D * RN * SI)	0.00002	0.00002	0.00002
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00108	0.00141	0.00254
	(CK * D * RN * !SI)	0.00112	0.00146	0.00262
	(CK * D * RN * !SI)	-0.00007	-0.00006	-0.00006
	(CK * D * RN * !SI)	0.00007	0.00007	0.00009
	(CK * D * RN * !SI)	0.00187	0.00219	0.00333
	(CK * D * !RN * SI)	-0.00012	0.00021	0.00134
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !RN * SI)	0.00108	0.00141	0.00254
	(CK * D * !RN * !SI)	0.00112	0.00145	0.00262
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00006
	(CK * D * !RN * !SI)	0.00005	0.00007	0.00008
	(CK * D * !RN * !SI)	0.00187	0.00219	0.00333
	(CK * !D * RN * SI)	-0.00006	0.00055	0.00263
	(CK * !D * RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * RN * SI)	-0.00011	-0.00010	-0.00009
	(CK * !D * RN * SI)	0.00157	0.00219	0.00427
	(CK * !D * RN * !SI)	-0.00004	0.00030	0.00144
	(CK * !D * RN * !SI)	0.00000	0.00002	0.00003
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00115	0.00149	0.00263
	(CK * !D * !RN * SI)	-0.00006	0.00055	0.00263
	(CK * !D * !RN * SI)	0.00010	0.00010	0.00011
	(CK * !D * !RN * SI)	-0.00011	-0.00010	-0.00009
	(CK * !D * !RN * SI)	0.00157	0.00219	0.00428
	(CK * !D * !RN * !SI)	-0.00004	0.00030	0.00144
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00004
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00114	0.00149	0.00263
	(!CK * D * RN * SI)	-0.00003	0.00030	0.00143
	(!CK * D * RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00000
	(!CK * D * RN * SI)	0.00116	0.00149	0.00262
	(!CK * D * RN * !SI)	0.00231	0.00264	0.00380
	(!CK * D * RN * !SI)	-0.00006	-0.00005	-0.00003
	(!CK * D * RN * !SI)	0.00005	0.00006	0.00009
	(!CK * D * RN * !SI)	0.00308	0.00340	0.00455
	(!CK * D * !RN * SI)	-0.00003	0.00030	0.00143
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00116	0.00149	0.00262
	(!CK * D * !RN * !SI)	0.00238	0.00271	0.00384
	(!CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00006
	(!CK * D * !RN * !SI)	0.00009	0.00009	0.00010
	(!CK * D * !RN * !SI)	0.00307	0.00338	0.00451
	(!CK * !D * RN * SI)	0.00119	0.00179	0.00385
	(!CK * !D * RN * SI)	0.00008	0.00009	0.00010
	(!CK * !D * RN * SI)	-0.00010	-0.00010	-0.00009
	(!CK * !D * RN * SI)	0.00282	0.00342	0.00547
	(!CK * !D * RN * !SI)	0.00005	0.00038	0.00152
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * RN * !SI)	0.00124	0.00158	0.00272
	(!CK * !D * !RN * SI)	0.00035	0.00089	0.00281
	(!CK * !D * !RN * SI)	0.00016	0.00016	0.00016
	(!CK * !D * !RN * SI)	-0.00014	-0.00014	-0.00014
	(!CK * !D * !RN * SI)	0.00208	0.00264	0.00456
	(!CK * !D * !RN * !SI)	0.00005	0.00038	0.00152
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !RN * !SI)	0.00123	0.00157	0.00271

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	(CK * D * RN * SI)	0.00114	0.00152	0.00277
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00001	0.00002	0.00002
	(CK * D * RN * SI)	-0.00006	0.00032	0.00157
	(CK * D * RN * !SI)	0.00164	0.00202	0.00332
	(CK * D * RN * !SI)	0.00006	0.00007	0.00008
	(CK * D * RN * !SI)	-0.00007	-0.00007	-0.00007
	(CK * D * RN * !SI)	0.00088	0.00128	0.00263
	(CK * D * !RN * SI)	0.00114	0.00152	0.00277
	(CK * D * !RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00001	0.00002	0.00002
	(CK * D * !RN * SI)	-0.00006	0.00032	0.00157
	(CK * D * !RN * !SI)	0.00164	0.00202	0.00332
	(CK * D * !RN * !SI)	0.00006	0.00007	0.00008
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00005
	(CK * D * !RN * !SI)	0.00087	0.00128	0.00263
	(CK * !D * RN * SI)	0.00174	0.00242	0.00469
	(CK * !D * RN * SI)	-0.00011	-0.00010	-0.00010
	(CK * !D * RN * SI)	0.00010	0.00011	0.00011
	(CK * !D * RN * SI)	0.00009	0.00078	0.00305
	(CK * !D * RN * !SI)	0.00104	0.00142	0.00267
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00000
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * RN * !SI)	-0.00014	0.00023	0.00148
	(CK * !D * !RN * SI)	0.00172	0.00242	0.00469
	(CK * !D * !RN * SI)	-0.00011	-0.00010	-0.00009
	(CK * !D * !RN * SI)	0.00010	0.00011	0.00011
	(CK * !D * !RN * SI)	0.00010	0.00078	0.00305
	(CK * !D * !RN * !SI)	0.00105	0.00142	0.00267
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00014	0.00023	0.00148
	(!CK * D * RN * SI)	0.00106	0.00143	0.00268
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00001	0.00002	0.00003
	(!CK * D * RN * SI)	-0.00014	0.00024	0.00149
	(!CK * D * RN * !SI)	0.00268	0.00308	0.00439
	(!CK * D * RN * !SI)	0.00003	0.00005	0.00006
	(!CK * D * RN * !SI)	-0.00007	-0.00006	-0.00005
	(!CK * D * RN * !SI)	0.00191	0.00232	0.00366
	(!CK * D * !RN * SI)	0.00106	0.00143	0.00268
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00014	0.00024	0.00149
	(!CK * D * !RN * !SI)	0.00184	0.00223	0.00352
	(!CK * D * !RN * !SI)	0.00012	0.00012	0.00014
	(!CK * D * !RN * !SI)	-0.00010	-0.00009	-0.00009
	(!CK * D * !RN * !SI)	0.00121	0.00160	0.00292
	(!CK * !D * RN * SI)	0.00277	0.00344	0.00572
	(!CK * !D * RN * SI)	-0.00009	-0.00009	-0.00007
	(!CK * !D * RN * SI)	0.00009	0.00010	0.00010
	(!CK * !D * RN * SI)	0.00114	0.00182	0.00410
	(!CK * !D * RN * !SI)	0.00097	0.00134	0.00259
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	0.00000
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * RN * !SI)	-0.00022	0.00015	0.00139
	(!CK * !D * !RN * SI)	0.00289	0.00350	0.00559
	(!CK * !D * !RN * SI)	-0.00013	-0.00011	-0.00009
	(!CK * !D * !RN * SI)	0.00014	0.00014	0.00015
	(!CK * !D * !RN * SI)	0.00119	0.00181	0.00390
	(!CK * !D * !RN * !SI)	0.00096	0.00134	0.00258
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	0.00000
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !RN * !SI)	-0.00023	0.00015	0.00139

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	**(CK * D * RN * SE)**	0.00007	0.00022	0.00079
	(CK * D * RN * SE)	0.00010	0.00010	0.00011
	(CK * D * RN * SE)	-0.00011	-0.00011	-0.00011
	(CK * D * RN * SE)	0.00100	0.00116	0.00173
	(CK * D * RN * !SE)	-0.00016	-0.00016	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * RN * !SE)	0.00021	0.00022	0.00023
	(CK * D * !RN * SE)	0.00006	0.00022	0.00079
	(CK * D * !RN * SE)	0.00010	0.00010	0.00011
	(CK * D * !RN * SE)	-0.00011	-0.00011	-0.00011
	(CK * D * !RN * SE)	0.00101	0.00116	0.00173
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00021	0.00022	0.00023
	(CK * !D * RN * SE)	0.00007	0.00022	0.00079
	(CK * !D * RN * SE)	0.00010	0.00010	0.00011
	(CK * !D * RN * SE)	-0.00011	-0.00011	-0.00011
	(CK * !D * RN * SE)	0.00101	0.00116	0.00174
	(CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00016
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * !RN * SE)	0.00007	0.00022	0.00080
	(CK * !D * !RN * SE)	0.00010	0.00010	0.00011
	(CK * !D * !RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * !D * !RN * SE)	0.00100	0.00116	0.00174
	(CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * !RN * !SE)	0.00022	0.00022	0.00022
	(!CK * D * RN * SE)	0.00122	0.00138	0.00198
	(!CK * D * RN * SE)	0.00009	0.00009	0.00010
	(!CK * D * RN * SE)	-0.00010	-0.00010	-0.00009
	(!CK * D * RN * SE)	0.00216	0.00232	0.00290
	(!CK * D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00021	0.00022	0.00023
	(!CK * D * !RN * SE)	0.00038	0.00051	0.00099
	(!CK * D * !RN * SE)	0.00016	0.00016	0.00016
	(!CK * D * !RN * SE)	-0.00011	-0.00010	-0.00010
	(!CK * D * !RN * SE)	0.00144	0.00156	0.00204
	(!CK * D * !RN * !SE)	-0.00016	-0.00016	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00021	0.00022	0.00022
	(!CK * !D * RN * SE)	0.00123	0.00139	0.00198
	(!CK * !D * RN * SE)	0.00009	0.00009	0.00010
	(!CK * !D * RN * SE)	-0.00010	-0.00010	-0.00009
	(!CK * !D * RN * SE)	0.00216	0.00232	0.00291
	(!CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(!CK * !D * !RN * SE)	0.00038	0.00051	0.00099
	(!CK * !D * !RN * SE)	0.00016	0.00016	0.00016
	(!CK * !D * !RN * SE)	-0.00011	-0.00010	-0.00010
	(!CK * !D * !RN * SE)	0.00144	0.00156	0.00204
	(!CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * !RN * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7L	(CK * D * RN * SE)	0.00138	0.00155	0.00218
	(CK * D * RN * SE)	-0.00011	-0.00010	-0.00010
	(CK * D * RN * SE)	0.00011	0.00011	0.00011
	(CK * D * RN * SE)	0.00044	0.00061	0.00124
	(CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * RN * !SE)	-0.00020	-0.00019	-0.00019
	(CK * D * !RN * SE)	0.00138	0.00155	0.00218
	(CK * D * !RN * SE)	-0.00011	-0.00010	-0.00010
	(CK * D * !RN * SE)	0.00011	0.00011	0.00011
	(CK * D * !RN * SE)	0.00044	0.00061	0.00124
	(CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * !RN * !SE)	-0.00020	-0.00019	-0.00019
	(CK * !D * RN * SE)	0.00138	0.00155	0.00218
	(CK * !D * RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * !D * RN * SE)	0.00011	0.00011	0.00011
	(CK * !D * RN * SE)	0.00044	0.00061	0.00124
	(CK * !D * RN * !SE)	0.00018	0.00018	0.00019
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00018
	(CK * !D * !RN * SE)	0.00138	0.00155	0.00218
	(CK * !D * !RN * SE)	-0.00010	-0.00010	-0.00010
	(CK * !D * !RN * SE)	0.00010	0.00011	0.00011
	(CK * !D * !RN * SE)	0.00044	0.00061	0.00124
	(CK * !D * !RN * !SE)	0.00018	0.00018	0.00019
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00018
	(!CK * D * RN * SE)	0.00250	0.00269	0.00337
	(!CK * D * RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * D * RN * SE)	0.00010	0.00010	0.00011
	(!CK * D * RN * SE)	0.00157	0.00176	0.00245
	(!CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	-0.00020	-0.00019	-0.00019
	(!CK * D * !RN * SE)	0.00255	0.00269	0.00324
	(!CK * D * !RN * SE)	-0.00011	-0.00010	-0.00009
	(!CK * D * !RN * SE)	0.00010	0.00010	0.00011
	(!CK * D * !RN * SE)	0.00161	0.00176	0.00232
	(!CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00020	-0.00019	-0.00019
	(!CK * !D * RN * SE)	0.00250	0.00269	0.00337
	(!CK * !D * RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * !D * RN * SE)	0.00010	0.00011	0.00011
	(!CK * !D * RN * SE)	0.00156	0.00176	0.00245
	(!CK * !D * RN * !SE)	0.00018	0.00018	0.00019
	(!CK * !D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00018
	(!CK * !D * !RN * SE)	0.00257	0.00271	0.00326
	(!CK * !D * !RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * !D * !RN * SE)	0.00010	0.00010	0.00011
	(!CK * !D * !RN * SE)	0.00164	0.00179	0.00234
	(!CK * !D * !RN * !SE)	0.00018	0.00018	0.00019
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00018

SDFFRX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ? (SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX2H7L	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX2H7L	0.00105	0.00080	0.00211	0.00203	0.00074	0.08610	0.08625

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX2H7L	0.00000	8.41841	12.15320

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7L	CK->Q (RR)	-	0.07910	0.22007	0.54361

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7L	CK->Q (RF)	-	0.06023	0.16478	0.38725
	RN->Q (FF)	(CK * D * SE * SI)	0.03357	0.14106	0.38818
	RN->Q (FF)	(CK * D * SE * !SI)	0.03357	0.14107	0.38822
	RN->Q (FF)	(CK * D * !SE * SI)	0.03357	0.14106	0.38815
	RN->Q (FF)	(CK * D * !SE * !SI)	0.03357	0.14106	0.38813
	RN->Q (FF)	(CK * !D * SE * SI)	0.03357	0.14107	0.38822
	RN->Q (FF)	(CK * !D * SE * !SI)	0.03357	0.14106	0.38822
	RN->Q (FF)	(CK * !D * !SE * SI)	0.03357	0.14107	0.38821
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.03357	0.14107	0.38821
	RN->Q (FF)	(!CK * D * SE * SI)	0.04614	0.16882	0.44684
	RN->Q (FF)	(!CK * D * SE * !SI)	0.04610	0.16864	0.44665
	RN->Q (FF)	(!CK * D * !SE * SI)	0.04614	0.16881	0.44679
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.04614	0.16881	0.44679
	RN->Q (FF)	(!CK * !D * SE * SI)	0.04614	0.16882	0.44682
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.04610	0.16864	0.44665
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.04610	0.16864	0.44673
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.04610	0.16864	0.44671

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7L	CK->QN (RR)	-	0.08907	0.22148	0.54369
	RN->QN (FR)	(CK * D * SE * SI)	0.05674	0.19987	0.54419
	RN->QN (FR)	(CK * D * SE * !SI)	0.05674	0.19987	0.54421
	RN->QN (FR)	(CK * D * !SE * SI)	0.05674	0.19987	0.54419
	RN->QN (FR)	(CK * D * !SE * !SI)	0.05674	0.19987	0.54420
	RN->QN (FR)	(CK * !D * SE * SI)	0.05674	0.19987	0.54419
	RN->QN (FR)	(CK * !D * SE * !SI)	0.05674	0.19987	0.54421
	RN->QN (FR)	(CK * !D * !SE * SI)	0.05674	0.19987	0.54428
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.05674	0.19987	0.54428
	RN->QN (FR)	(!CK * D * SE * SI)	0.07449	0.22790	0.60332
	RN->QN (FR)	(!CK * D * SE * !SI)	0.07444	0.22773	0.60275
	RN->QN (FR)	(!CK * D * !SE * SI)	0.07449	0.22790	0.60334
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.07449	0.22790	0.60334
	RN->QN (FR)	(!CK * !D * SE * SI)	0.07449	0.22790	0.60332
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.07444	0.22772	0.60275
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.07444	0.22772	0.60275
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.07444	0.22772	0.60275

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7L	CK->QN (RF)	-	0.10601	0.20220	0.41637

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	**hold**	**CK (R)**	-0.03658	-0.01049	0.01318
	setup	**CK (R)**	0.00816	0.04124	0.07719

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	**hold**	**CK (R)**	-0.17342	-0.08093	-0.03851
	setup	**CK (R)**	0.05625	0.10253	0.19715

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	**hold**	**CK (R)**	0.03419	0.06345	0.08957
	setup	**CK (R)**	-0.06101	0.02233	0.25009

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	hold	CK (R)	-0.02693	-0.00588	0.01252
	setup	CK (R)	0.07011	0.08768	0.10922

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	hold	CK (R)	-0.11234	-0.03957	0.00587
	setup	CK (R)	0.04330	0.08684	0.16896

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	hold	CK (R)	-0.04455	-0.01504	0.01224
	setup	CK (R)	0.00866	0.04593	0.08993

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7L	hold	CK (R)	-0.17563	-0.08422	-0.04245
	setup	CK (R)	0.05952	0.10572	0.20074

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7L	CK	-	0.00227	0.00248	0.00318
	CK	-	0.00000	0.00002	0.00004
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00274	0.00295	0.00366

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7L	CK	-	0.00228	0.00248	0.00320
	CK	-	-0.00003	-0.00002	0.00000
	CK	-	0.00000	0.00001	0.00003
	CK	-	0.00254	0.00275	0.00346
	RN	(CK * D * SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * D * SE * SI)	-0.00005	-0.00001	0.00002
	RN	(CK * D * SE * SI)	0.00168	0.00191	0.00275
	RN	(CK * D * SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * D * SE * !SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * D * SE * !SI)	0.00170	0.00191	0.00275
	RN	(CK * D * !SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * D * !SE * SI)	-0.00005	-0.00001	0.00001
	RN	(CK * D * !SE * SI)	0.00168	0.00191	0.00275
	RN	(CK * D * !SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * D * !SE * !SI)	-0.00005	-0.00001	0.00002
	RN	(CK * D * !SE * !SI)	0.00167	0.00191	0.00275
	RN	(CK * !D * SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * !D * SE * SI)	-0.00005	-0.00001	0.00002
	RN	(CK * !D * SE * SI)	0.00168	0.00191	0.00275
	RN	(CK * !D * SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * SE * !SI)	0.00170	0.00191	0.00275
	RN	(CK * !D * !SE * SI)	0.00246	0.00267	0.00351
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * !SE * SI)	0.00170	0.00191	0.00275
	RN	(CK * !D * !SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * !SE * !SI)	0.00169	0.00191	0.00275
	RN	(!CK * D * SE * SI)	0.00220	0.00254	0.00387
	RN	(!CK * D * SE * SI)	-0.00008	-0.00007	0.00003
	RN	(!CK * D * SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * D * SE * SI)	0.00132	0.00167	0.00300
	RN	(!CK * D * SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * D * SE * !SI)	-0.00001	0.00001	0.00004
	RN	(!CK * D * SE * !SI)	0.00118	0.00134	0.00204
	RN	(!CK * D * !SE * SI)	0.00220	0.00254	0.00388
	RN	(!CK * D * !SE * SI)	-0.00008	-0.00007	-0.00005
	RN	(!CK * D * !SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * D * !SE * SI)	0.00132	0.00167	0.00300
	RN	(!CK * D * !SE * !SI)	0.00220	0.00254	0.00388
	RN	(!CK * D * !SE * !SI)	-0.00008	-0.00007	-0.00004
	RN	(!CK * D * !SE * !SI)	0.00003	0.00005	0.00007
	RN	(!CK * D * !SE * !SI)	0.00132	0.00167	0.00300
	RN	(!CK * !D * SE * SI)	0.00220	0.00254	0.00387
	RN	(!CK * !D * SE * SI)	-0.00008	-0.00007	0.00003
	RN	(!CK * !D * SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * !D * SE * SI)	0.00132	0.00167	0.00300
	RN	(!CK * !D * SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00001	0.00004
	RN	(!CK * !D * SE * !SI)	0.00118	0.00134	0.00204
	RN	(!CK * !D * !SE * SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00001	0.00004
	RN	(!CK * !D * !SE * SI)	0.00118	0.00134	0.00204
	RN	(!CK * !D * !SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CK * !D * !SE * !SI)	0.00118	0.00134	0.00204

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7L	CK	-	0.00228	0.00249	0.00320
	CK	-	-0.00002	-0.00002	-0.00001
	CK	-	0.00001	0.00001	0.00003
	CK	-	0.00254	0.00275	0.00348
	RN	(CK * D * SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * D * SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * SE * SI)	0.00169	0.00191	0.00275
	RN	(CK * D * SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * D * SE * !SI)	0.00170	0.00191	0.00275
	RN	(CK * D * !SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * D * !SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * !SE * SI)	0.00170	0.00191	0.00275
	RN	(CK * D * !SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * !SE * !SI)	0.00170	0.00191	0.00275
	RN	(CK * !D * SE * SI)	0.00245	0.00267	0.00351
	RN	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * !D * SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * !D * SE * SI)	0.00170	0.00191	0.00275
	RN	(CK * !D * SE * !SI)	0.00245	0.00267	0.00351
	RN	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * SE * !SI)	0.00170	0.00191	0.00275
	RN	(CK * !D * !SE * SI)	0.00244	0.00267	0.00352
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00000
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * !SE * SI)	0.00170	0.00192	0.00275
	RN	(CK * !D * !SE * !SI)	0.00244	0.00267	0.00351
	RN	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00000
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * !SE * !SI)	0.00170	0.00191	0.00275
	RN	(!CK * D * SE * SI)	0.00220	0.00255	0.00388
	RN	(!CK * D * SE * SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * D * SE * SI)	0.00004	0.00005	0.00005
	RN	(!CK * D * SE * SI)	0.00132	0.00167	0.00301
	RN	(!CK * D * SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * D * SE * !SI)	-0.00002	0.00001	0.00002
	RN	(!CK * D * SE * !SI)	0.00118	0.00135	0.00204
	RN	(!CK * D * !SE * SI)	0.00220	0.00255	0.00388
	RN	(!CK * D * !SE * SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * D * !SE * SI)	0.00004	0.00005	0.00005
	RN	(!CK * D * !SE * SI)	0.00132	0.00167	0.00301
	RN	(!CK * D * !SE * !SI)	0.00220	0.00255	0.00388
	RN	(!CK * D * !SE * !SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * D * !SE * !SI)	0.00004	0.00005	0.00005
	RN	(!CK * D * !SE * !SI)	0.00132	0.00167	0.00301
	RN	(!CK * !D * SE * SI)	0.00220	0.00255	0.00388
	RN	(!CK * !D * SE * SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * !D * SE * SI)	0.00004	0.00005	0.00005
	RN	(!CK * !D * SE * SI)	0.00132	0.00167	0.00301
	RN	(!CK * !D * SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00001	0.00005
	RN	(!CK * !D * SE * !SI)	0.00118	0.00134	0.00204
	RN	(!CK * !D * !SE * SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * !SE * SI)	-0.00002	0.00001	0.00002
	RN	(!CK * !D * !SE * SI)	0.00119	0.00135	0.00204
	RN	(!CK * !D * !SE * !SI)	0.00184	0.00200	0.00269
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00002	0.00001	0.00002
	RN	(!CK * !D * !SE * !SI)	0.00118	0.00135	0.00204

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7L	CK	-	0.00227	0.00248	0.00317
	CK	-	0.00001	0.00002	0.00002
	CK	-	-0.00002	-0.00001	-0.00001
	CK	-	0.00274	0.00294	0.00364

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(D * RN * SE * SI)**	0.00173	0.00207	0.00330
	(D * RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * SE * SI)	-0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00245	0.00279	0.00403
	(D * RN * SE * !SI)	0.00177	0.00211	0.00334
	(D * RN * SE * !SI)	-0.00002	-0.00001	0.00001
	(D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * !SI)	0.00249	0.00284	0.00408
	(D * RN * !SE * SI)	0.00181	0.00215	0.00339
	(D * RN * !SE * SI)	-0.00002	-0.00001	-0.00001
	(D * RN * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * !SE * SI)	0.00254	0.00288	0.00412
	(D * RN * !SE * !SI)	0.00181	0.00215	0.00339
	(D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * !SI)	0.00254	0.00288	0.00412
	(D * !RN * SE * SI)	0.00231	0.00265	0.00388
	(D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * SE * SI)	-0.00007	-0.00006	-0.00006
	(D * !RN * SE * SI)	0.00321	0.00354	0.00477
	(D * !RN * SE * !SI)	0.00177	0.00211	0.00334
	(D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !RN * SE * !SI)	0.00250	0.00284	0.00408
	(D * !RN * !SE * SI)	0.00241	0.00274	0.00397
	(D * !RN * !SE * SI)	0.00003	0.00005	0.00006
	(D * !RN * !SE * SI)	-0.00007	-0.00007	-0.00006
	(D * !RN * !SE * SI)	0.00329	0.00363	0.00486
	(D * !RN * !SE * !SI)	0.00241	0.00274	0.00397
	(D * !RN * !SE * !SI)	0.00003	0.00005	0.00006
	(D * !RN * !SE * !SI)	-0.00007	-0.00007	-0.00006
	(D * !RN * !SE * !SI)	0.00329	0.00363	0.00486
	(!D * RN * SE * SI)	0.00173	0.00207	0.00330
	(!D * RN * SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00245	0.00279	0.00403
	(!D * RN * SE * !SI)	0.00177	0.00211	0.00334
	(!D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * !SI)	0.00249	0.00284	0.00408
	(!D * RN * !SE * SI)	0.00185	0.00219	0.00343
	(!D * RN * !SE * SI)	-0.00002	-0.00001	0.00001
	(!D * RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * SI)	0.00258	0.00292	0.00416
	(!D * RN * !SE * !SI)	0.00185	0.00219	0.00342
	(!D * RN * !SE * !SI)	-0.00002	-0.00001	0.00001
	(!D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00258	0.00292	0.00416
	(!D * !RN * SE * SI)	0.00231	0.00265	0.00388
	(!D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(!D * !RN * SE * SI)	-0.00007	-0.00006	-0.00006
	(!D * !RN * SE * SI)	0.00321	0.00354	0.00477
	(!D * !RN * SE * !SI)	0.00177	0.00211	0.00334
	(!D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * SE * !SI)	0.00250	0.00284	0.00407
	(!D * !RN * !SE * SI)	0.00185	0.00219	0.00343
	(!D * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * SI)	0.00259	0.00293	0.00416
	(!D * !RN * !SE * !SI)	0.00185	0.00219	0.00342
	(!D * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * !SI)	0.00258	0.00292	0.00416

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(D * RN * SE * SI)**	0.00399	0.00437	0.00573
	(D * RN * SE * SI)	0.00000	0.00001	0.00002
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00356	0.00394	0.00530
	(D * RN * SE * !SI)	0.00407	0.00454	0.00612
	(D * RN * SE * !SI)	0.00001	0.00003	0.00004
	(D * RN * SE * !SI)	0.00002	0.00003	0.00003
	(D * RN * SE * !SI)	0.00307	0.00352	0.00510
	(D * RN * !SE * SI)	0.00390	0.00429	0.00565
	(D * RN * !SE * SI)	0.00002	0.00002	0.00003
	(D * RN * !SE * SI)	0.00000	0.00000	0.00001
	(D * RN * !SE * SI)	0.00346	0.00386	0.00522
	(D * RN * !SE * !SI)	0.00390	0.00429	0.00565
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00001
	(D * RN * !SE * !SI)	0.00347	0.00385	0.00522
	(D * !RN * SE * SI)	0.00344	0.00382	0.00519
	(D * !RN * SE * SI)	-0.00007	-0.00005	-0.00005
	(D * !RN * SE * SI)	0.00006	0.00007	0.00007
	(D * !RN * SE * SI)	0.00255	0.00294	0.00431
	(D * !RN * SE * !SI)	0.00255	0.00294	0.00431
	(D * !RN * SE * !SI)	-0.00000	0.00000	0.00001
	(D * !RN * SE * !SI)	0.00000	0.00000	0.00001
	(D * !RN * SE * !SI)	0.00182	0.00221	0.00358
	(D * !RN * !SE * SI)	0.00335	0.00374	0.00510
	(D * !RN * !SE * SI)	-0.00005	-0.00005	-0.00003
	(D * !RN * !SE * SI)	0.00006	0.00007	0.00007
	(D * !RN * !SE * SI)	0.00247	0.00286	0.00422
	(D * !RN * !SE * !SI)	0.00335	0.00374	0.00510
	(D * !RN * !SE * !SI)	-0.00005	-0.00005	-0.00003
	(D * !RN * !SE * !SI)	0.00006	0.00007	0.00007
	(D * !RN * !SE * !SI)	0.00247	0.00286	0.00422
	(!D * RN * SE * SI)	0.00398	0.00437	0.00573
	(!D * RN * SE * SI)	0.00001	0.00002	0.00003
	(!D * RN * SE * SI)	0.00000	0.00000	0.00001
	(!D * RN * SE * SI)	0.00355	0.00394	0.00530
	(!D * RN * SE * !SI)	0.00410	0.00454	0.00611
	(!D * RN * SE * !SI)	0.00000	0.00002	0.00004
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * SE * !SI)	0.00307	0.00352	0.00510
	(!D * RN * !SE * SI)	0.00399	0.00445	0.00603
	(!D * RN * !SE * SI)	0.00002	0.00003	0.00004
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00004
	(!D * RN * !SE * SI)	0.00298	0.00344	0.00502
	(!D * RN * !SE * !SI)	0.00399	0.00445	0.00603
	(!D * RN * !SE * !SI)	0.00002	0.00003	0.00004
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00004
	(!D * RN * !SE * !SI)	0.00298	0.00344	0.00502
	(!D * !RN * SE * SI)	0.00344	0.00382	0.00519
	(!D * !RN * SE * SI)	-0.00007	-0.00005	-0.00005
	(!D * !RN * SE * SI)	0.00006	0.00007	0.00007
	(!D * !RN * SE * SI)	0.00255	0.00294	0.00431
	(!D * !RN * SE * !SI)	0.00255	0.00294	0.00431
	(!D * !RN * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !RN * SE * !SI)	0.00000	0.00000	0.00001
	(!D * !RN * SE * !SI)	0.00182	0.00221	0.00358
	(!D * !RN * !SE * SI)	0.00247	0.00286	0.00423
	(!D * !RN * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * !RN * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !RN * !SE * SI)	0.00174	0.00213	0.00350
	(!D * !RN * !SE * !SI)	0.00247	0.00286	0.00423
	(!D * !RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !RN * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !RN * !SE * !SI)	0.00174	0.00213	0.00350

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * RN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00031	0.00032	0.00033
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * RN * SE * !SI)	0.00029	0.00029	0.00029
	(CK * RN * !SE * SI)	0.00042	0.00058	0.00120
	(CK * RN * !SE * SI)	0.00009	0.00010	0.00011
	(CK * RN * !SE * SI)	-0.00009	-0.00009	-0.00009
	(CK * RN * !SE * SI)	0.00139	0.00155	0.00217
	(CK * RN * !SE * !SI)	0.00042	0.00058	0.00120
	(CK * RN * !SE * !SI)	0.00008	0.00009	0.00010
	(CK * RN * !SE * !SI)	-0.00009	-0.00009	-0.00009
	(CK * RN * !SE * !SI)	0.00139	0.00155	0.00217
	(CK * !RN * SE * SI)	-0.00011	-0.00011	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00031	0.00032	0.00033
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * !RN * !SE * SI)	0.00041	0.00058	0.00120
	(CK * !RN * !SE * SI)	0.00009	0.00009	0.00009
	(CK * !RN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * SI)	0.00138	0.00155	0.00217
	(CK * !RN * !SE * !SI)	0.00041	0.00058	0.00120
	(CK * !RN * !SE * !SI)	0.00009	0.00009	0.00009
	(CK * !RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * !SI)	0.00138	0.00155	0.00217
	(!CK * RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00032	0.00032	0.00033
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(!CK * RN * !SE * SI)	0.00191	0.00208	0.00273
	(!CK * RN * !SE * SI)	0.00007	0.00007	0.00008
	(!CK * RN * !SE * SI)	-0.00011	-0.00010	-0.00008
	(!CK * RN * !SE * SI)	0.00315	0.00332	0.00397
	(!CK * RN * !SE * !SI)	0.00191	0.00208	0.00273
	(!CK * RN * !SE * !SI)	0.00007	0.00008	0.00009
	(!CK * RN * !SE * !SI)	-0.00010	-0.00010	-0.00008
	(!CK * RN * !SE * !SI)	0.00315	0.00332	0.00397
	(!CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00031	0.00032	0.00033
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(!CK * !RN * !SE * SI)	0.00138	0.00155	0.00220
	(!CK * !RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!CK * !RN * !SE * SI)	-0.00001	0.00000	0.00001
	(!CK * !RN * !SE * SI)	0.00213	0.00230	0.00294
	(!CK * !RN * !SE * !SI)	0.00138	0.00155	0.00220
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * !RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	0.00212	0.00230	0.00295

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * RN * SE * SI)**	0.00013	0.00013	0.00013
	(CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	-0.00000	-0.00000	0.00000
	(CK * RN * SE * !SI)	-0.00026	-0.00026	-0.00025
	(CK * RN * !SE * SI)	0.00129	0.00148	0.00217
	(CK * RN * !SE * SI)	-0.00011	-0.00010	-0.00009
	(CK * RN * !SE * SI)	0.00009	0.00009	0.00009
	(CK * RN * !SE * SI)	0.00031	0.00050	0.00120
	(CK * RN * !SE * !SI)	0.00129	0.00147	0.00217
	(CK * RN * !SE * !SI)	-0.00010	-0.00009	-0.00008
	(CK * RN * !SE * !SI)	0.00009	0.00009	0.00009
	(CK * RN * !SE * !SI)	0.00031	0.00050	0.00120
	(CK * !RN * SE * SI)	0.00012	0.00013	0.00013
	(CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00029
	(CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	-0.00000	-0.00000	0.00000
	(CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(CK * !RN * !SE * SI)	0.00129	0.00148	0.00216
	(CK * !RN * !SE * SI)	-0.00009	-0.00009	-0.00009
	(CK * !RN * !SE * SI)	0.00009	0.00010	0.00011
	(CK * !RN * !SE * SI)	0.00031	0.00050	0.00119
	(CK * !RN * !SE * !SI)	0.00129	0.00148	0.00216
	(CK * !RN * !SE * !SI)	-0.00009	-0.00009	-0.00009
	(CK * !RN * !SE * !SI)	0.00009	0.00010	0.00010
	(CK * !RN * !SE * !SI)	0.00031	0.00050	0.00119
	(!CK * RN * SE * SI)	0.00013	0.00013	0.00014
	(!CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(!CK * RN * !SE * SI)	0.00289	0.00309	0.00383
	(!CK * RN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(!CK * RN * !SE * SI)	0.00008	0.00010	0.00012
	(!CK * RN * !SE * SI)	0.00164	0.00184	0.00258
	(!CK * RN * !SE * !SI)	0.00289	0.00309	0.00382
	(!CK * RN * !SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CK * RN * !SE * !SI)	0.00008	0.00010	0.00012
	(!CK * RN * !SE * !SI)	0.00164	0.00184	0.00258
	(!CK * !RN * SE * SI)	0.00013	0.00013	0.00014
	(!CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00030	-0.00030	-0.00030
	(!CK * !RN * SE * !SI)	0.00016	0.00017	0.00017
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !RN * SE * !SI)	-0.00027	-0.00026	-0.00024
	(!CK * !RN * !SE * SI)	0.00186	0.00206	0.00280
	(!CK * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * SI)	-0.00000	0.00000	0.00001
	(!CK * !RN * !SE * SI)	0.00111	0.00132	0.00206
	(!CK * !RN * !SE * !SI)	0.00186	0.00206	0.00280
	(!CK * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * !RN * !SE * !SI)	0.00112	0.00132	0.00205

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * SE * SI)**	-0.00062	-0.00061	-0.00060
	(CK * D * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * D * SE * SI)	0.00002	0.00003	0.00004
	(CK * D * SE * SI)	0.00044	0.00045	0.00046
	(CK * D * SE * !SI)	-0.00062	-0.00062	-0.00061
	(CK * D * SE * !SI)	-0.00000	-0.00000	0.00000
	(CK * D * SE * !SI)	0.00001	0.00003	0.00004
	(CK * D * SE * !SI)	0.00044	0.00045	0.00046
	(CK * D * !SE * SI)	-0.00062	-0.00061	-0.00060
	(CK * D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * SI)	0.00002	0.00003	0.00004
	(CK * D * !SE * SI)	0.00044	0.00045	0.00046
	(CK * D * !SE * !SI)	-0.00062	-0.00061	-0.00060
	(CK * D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00004
	(CK * D * !SE * !SI)	0.00044	0.00045	0.00046
	(CK * !D * SE * SI)	-0.00062	-0.00061	-0.00060
	(CK * !D * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !D * SE * SI)	0.00002	0.00003	0.00004
	(CK * !D * SE * SI)	0.00044	0.00045	0.00046
	(CK * !D * SE * !SI)	-0.00062	-0.00062	-0.00061
	(CK * !D * SE * !SI)	-0.00000	-0.00000	0.00000
	(CK * !D * SE * !SI)	0.00001	0.00003	0.00004
	(CK * !D * SE * !SI)	0.00044	0.00045	0.00046
	(CK * !D * !SE * SI)	-0.00062	-0.00061	-0.00060
	(CK * !D * !SE * SI)	-0.00002	-0.00001	-0.00000
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00004
	(CK * !D * !SE * SI)	0.00044	0.00045	0.00046
	(CK * !D * !SE * !SI)	-0.00062	-0.00061	-0.00060
	(CK * !D * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00004
	(CK * !D * !SE * !SI)	0.00044	0.00045	0.00046
	(!CK * D * SE * SI)	-0.00006	0.00026	0.00140
	(!CK * D * SE * SI)	0.00008	0.00009	0.00011
	(!CK * D * SE * SI)	-0.00005	-0.00004	-0.00002
	(!CK * D * SE * SI)	0.00146	0.00178	0.00292
	(!CK * D * SE * !SI)	-0.00060	-0.00060	-0.00059
	(!CK * D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * D * SE * !SI)	0.00000	0.00002	0.00003
	(!CK * D * SE * !SI)	0.00046	0.00047	0.00048
	(!CK * D * !SE * SI)	-0.00006	0.00026	0.00140
	(!CK * D * !SE * SI)	0.00007	0.00008	0.00008
	(!CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * !SE * SI)	0.00146	0.00179	0.00292
	(!CK * D * !SE * !SI)	-0.00006	0.00026	0.00140
	(!CK * D * !SE * !SI)	0.00007	0.00008	0.00008
	(!CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * !SE * !SI)	0.00146	0.00179	0.00292
	(!CK * !D * SE * SI)	-0.00006	0.00026	0.00140
	(!CK * !D * SE * SI)	0.00008	0.00009	0.00011
	(!CK * !D * SE * SI)	-0.00005	-0.00004	-0.00004
	(!CK * !D * SE * SI)	0.00146	0.00178	0.00292
	(!CK * !D * SE * !SI)	-0.00061	-0.00060	-0.00059
	(!CK * !D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00000	0.00002	0.00004
	(!CK * !D * SE * !SI)	0.00046	0.00047	0.00048
	(!CK * !D * !SE * SI)	-0.00060	-0.00060	-0.00060
	(!CK * !D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00003	0.00005
	(!CK * !D * !SE * SI)	0.00044	0.00047	0.00047
	(!CK * !D * !SE * !SI)	-0.00060	-0.00060	-0.00060
	(!CK * !D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00005
	(!CK * !D * !SE * !SI)	0.00045	0.00047	0.00047

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * SE * SI)**	0.00062	0.00063	0.00063
	(CK * D * SE * SI)	0.00000	0.00001	0.00001
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	-0.00045	-0.00044	-0.00044
	(CK * D * SE * !SI)	0.00062	0.00063	0.00063
	(CK * D * SE * !SI)	0.00000	0.00001	0.00002
	(CK * D * SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * D * SE * !SI)	-0.00044	-0.00044	-0.00044
	(CK * D * !SE * SI)	0.00062	0.00063	0.00063
	(CK * D * !SE * SI)	0.00000	0.00001	0.00001
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * SI)	-0.00045	-0.00044	-0.00044
	(CK * D * !SE * !SI)	0.00062	0.00063	0.00063
	(CK * D * !SE * !SI)	0.00000	0.00001	0.00001
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * !SI)	-0.00044	-0.00044	-0.00044
	(CK * !D * SE * SI)	0.00062	0.00063	0.00063
	(CK * !D * SE * SI)	0.00000	0.00001	0.00001
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	-0.00045	-0.00044	-0.00044
	(CK * !D * SE * !SI)	0.00062	0.00063	0.00063
	(CK * !D * SE * !SI)	0.00000	0.00001	0.00002
	(CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * SE * !SI)	-0.00045	-0.00044	-0.00044
	(CK * !D * !SE * SI)	0.00062	0.00063	0.00063
	(CK * !D * !SE * SI)	0.00000	0.00001	0.00002
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * SI)	-0.00044	-0.00044	-0.00044
	(CK * !D * !SE * !SI)	0.00062	0.00063	0.00063
	(CK * !D * !SE * !SI)	0.00000	0.00001	0.00002
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * !SI)	-0.00044	-0.00044	-0.00044
	(!CK * D * SE * SI)	0.00132	0.00170	0.00299
	(!CK * D * SE * SI)	-0.00009	-0.00008	-0.00008
	(!CK * D * SE * SI)	0.00002	0.00004	0.00005
	(!CK * D * SE * SI)	-0.00020	0.00019	0.00148
	(!CK * D * SE * !SI)	0.00061	0.00062	0.00063
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * D * SE * !SI)	-0.00003	-0.00002	-0.00000
	(!CK * D * SE * !SI)	-0.00048	-0.00046	-0.00044
	(!CK * D * !SE * SI)	0.00132	0.00170	0.00299
	(!CK * D * !SE * SI)	-0.00008	-0.00008	-0.00007
	(!CK * D * !SE * SI)	0.00003	0.00004	0.00004
	(!CK * D * !SE * SI)	-0.00018	0.00019	0.00148
	(!CK * D * !SE * !SI)	0.00132	0.00170	0.00299
	(!CK * D * !SE * !SI)	-0.00008	-0.00008	-0.00007
	(!CK * D * !SE * !SI)	0.00003	0.00004	0.00004
	(!CK * D * !SE * !SI)	-0.00018	0.00019	0.00148
	(!CK * !D * SE * SI)	0.00132	0.00170	0.00299
	(!CK * !D * SE * SI)	-0.00009	-0.00008	-0.00008
	(!CK * !D * SE * SI)	0.00004	0.00004	0.00005
	(!CK * !D * SE * SI)	-0.00020	0.00019	0.00148
	(!CK * !D * SE * !SI)	0.00061	0.00062	0.00063
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00000
	(!CK * !D * SE * !SI)	-0.00048	-0.00046	-0.00044
	(!CK * !D * !SE * SI)	0.00062	0.00062	0.00063
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00001
	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * !SE * SI)	-0.00045	-0.00045	-0.00044
	(!CK * !D * !SE * !SI)	0.00061	0.00062	0.00063
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * !SE * !SI)	-0.00046	-0.00045	-0.00044

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * RN * SI)**	-0.00014	0.00025	0.00158
	(CK * D * RN * SI)	0.00002	0.00002	0.00003
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00000
	(CK * D * RN * SI)	0.00114	0.00153	0.00286
	(CK * D * RN * !SI)	0.00126	0.00165	0.00300
	(CK * D * RN * !SI)	-0.00005	-0.00004	-0.00003
	(CK * D * RN * !SI)	0.00004	0.00005	0.00005
	(CK * D * RN * !SI)	0.00212	0.00250	0.00383
	(CK * D * !RN * SI)	-0.00014	0.00025	0.00157
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00000
	(CK * D * !RN * SI)	0.00114	0.00153	0.00286
	(CK * D * !RN * !SI)	0.00127	0.00165	0.00300
	(CK * D * !RN * !SI)	-0.00004	-0.00004	-0.00002
	(CK * D * !RN * !SI)	0.00003	0.00005	0.00005
	(CK * D * !RN * !SI)	0.00211	0.00250	0.00382
	(CK * !D * RN * SI)	-0.00003	0.00064	0.00287
	(CK * !D * RN * SI)	0.00008	0.00009	0.00010
	(CK * !D * RN * SI)	-0.00009	-0.00009	-0.00008
	(CK * !D * RN * SI)	0.00167	0.00232	0.00456
	(CK * !D * RN * !SI)	-0.00005	0.00034	0.00168
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00122	0.00162	0.00295
	(CK * !D * !RN * SI)	-0.00003	0.00063	0.00287
	(CK * !D * !RN * SI)	0.00008	0.00009	0.00010
	(CK * !D * !RN * SI)	-0.00010	-0.00010	-0.00008
	(CK * !D * !RN * SI)	0.00166	0.00232	0.00456
	(CK * !D * !RN * !SI)	-0.00005	0.00034	0.00167
	(CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00122	0.00161	0.00295
	(!CK * D * RN * SI)	-0.00005	0.00034	0.00166
	(!CK * D * RN * SI)	0.00002	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00123	0.00161	0.00294
	(!CK * D * RN * !SI)	0.00295	0.00334	0.00468
	(!CK * D * RN * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * D * RN * !SI)	0.00002	0.00005	0.00007
	(!CK * D * RN * !SI)	0.00353	0.00392	0.00525
	(!CK * D * !RN * SI)	-0.00005	0.00034	0.00166
	(!CK * D * !RN * SI)	0.00002	0.00003	0.00003
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00123	0.00161	0.00294
	(!CK * D * !RN * !SI)	0.00193	0.00231	0.00366
	(!CK * D * !RN * !SI)	0.00004	0.00005	0.00008
	(!CK * D * !RN * !SI)	-0.00005	-0.00004	-0.00002
	(!CK * D * !RN * !SI)	0.00300	0.00339	0.00472
	(!CK * !D * RN * SI)	0.00154	0.00222	0.00450
	(!CK * !D * RN * SI)	0.00006	0.00007	0.00008
	(!CK * !D * RN * SI)	-0.00011	-0.00010	-0.00009
	(!CK * !D * RN * SI)	0.00350	0.00417	0.00647
	(!CK * !D * RN * !SI)	0.00003	0.00043	0.00176
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * RN * !SI)	0.00131	0.00170	0.00304
	(!CK * !D * !RN * SI)	0.00102	0.00169	0.00397
	(!CK * !D * !RN * SI)	-0.00001	-0.00000	0.00002
	(!CK * !D * !RN * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !RN * SI)	0.00248	0.00315	0.00544
	(!CK * !D * !RN * !SI)	0.00003	0.00043	0.00176
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !RN * !SI)	0.00131	0.00170	0.00304

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * RN * SI)**	0.00120	0.00165	0.00311
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00000	0.00002	0.00002
	(CK * D * RN * SI)	-0.00007	0.00038	0.00184
	(CK * D * RN * !SI)	0.00173	0.00220	0.00370
	(CK * D * RN * !SI)	0.00003	0.00005	0.00006
	(CK * D * RN * !SI)	-0.00005	-0.00005	-0.00004
	(CK * D * RN * !SI)	0.00089	0.00135	0.00289
	(CK * D * !RN * SI)	0.00120	0.00165	0.00312
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00000	0.00002	0.00002
	(CK * D * !RN * SI)	-0.00007	0.00038	0.00184
	(CK * D * !RN * !SI)	0.00174	0.00219	0.00370
	(CK * D * !RN * !SI)	0.00002	0.00004	0.00006
	(CK * D * !RN * !SI)	-0.00005	-0.00005	-0.00003
	(CK * D * !RN * !SI)	0.00087	0.00134	0.00289
	(CK * !D * RN * SI)	0.00195	0.00269	0.00514
	(CK * !D * RN * SI)	-0.00010	-0.00009	-0.00008
	(CK * !D * RN * SI)	0.00008	0.00009	0.00011
	(CK * !D * RN * SI)	0.00027	0.00101	0.00345
	(CK * !D * RN * !SI)	0.00111	0.00155	0.00302
	(CK * !D * RN * !SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * RN * !SI)	-0.00016	0.00028	0.00174
	(CK * !D * !RN * SI)	0.00197	0.00269	0.00514
	(CK * !D * !RN * SI)	-0.00009	-0.00009	-0.00007
	(CK * !D * !RN * SI)	0.00009	0.00010	0.00010
	(CK * !D * !RN * SI)	0.00027	0.00100	0.00344
	(CK * !D * !RN * !SI)	0.00111	0.00156	0.00301
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00016	0.00028	0.00174
	(!CK * D * RN * SI)	0.00112	0.00157	0.00303
	(!CK * D * RN * SI)	-0.00003	-0.00002	-0.00002
	(!CK * D * RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00015	0.00029	0.00175
	(!CK * D * RN * !SI)	0.00315	0.00361	0.00511
	(!CK * D * RN * !SI)	0.00002	0.00002	0.00003
	(!CK * D * RN * !SI)	-0.00006	-0.00005	-0.00002
	(!CK * D * RN * !SI)	0.00258	0.00303	0.00458
	(!CK * D * !RN * SI)	0.00112	0.00157	0.00303
	(!CK * D * !RN * SI)	-0.00003	-0.00002	-0.00000
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(!CK * D * !RN * SI)	-0.00016	0.00029	0.00175
	(!CK * D * !RN * !SI)	0.00263	0.00308	0.00458
	(!CK * D * !RN * !SI)	-0.00008	-0.00005	-0.00004
	(!CK * D * !RN * !SI)	0.00002	0.00005	0.00006
	(!CK * D * !RN * !SI)	0.00153	0.00200	0.00355
	(!CK * !D * RN * SI)	0.00348	0.00423	0.00673
	(!CK * !D * RN * SI)	-0.00008	-0.00007	-0.00006
	(!CK * !D * RN * SI)	0.00009	0.00010	0.00011
	(!CK * !D * RN * SI)	0.00153	0.00227	0.00477
	(!CK * !D * RN * !SI)	0.00102	0.00147	0.00293
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * RN * !SI)	-0.00025	0.00020	0.00166
	(!CK * !D * !RN * SI)	0.00246	0.00320	0.00570
	(!CK * !D * !RN * SI)	-0.00002	0.00000	0.00002
	(!CK * !D * !RN * SI)	-0.00000	0.00000	0.00000
	(!CK * !D * !RN * SI)	0.00099	0.00174	0.00424
	(!CK * !D * !RN * !SI)	0.00102	0.00147	0.00293
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !RN * !SI)	-0.00025	0.00020	0.00165

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * RN * SE)**	0.00012	0.00026	0.00081
	(CK * D * RN * SE)	0.00009	0.00009	0.00010
	(CK * D * RN * SE)	-0.00009	-0.00009	-0.00008
	(CK * D * RN * SE)	0.00104	0.00118	0.00173
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(CK * D * !RN * SE)	0.00011	0.00026	0.00082
	(CK * D * !RN * SE)	0.00007	0.00008	0.00009
	(CK * D * !RN * SE)	-0.00009	-0.00009	-0.00009
	(CK * D * !RN * SE)	0.00103	0.00118	0.00173
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * RN * SE)	0.00012	0.00026	0.00082
	(CK * !D * RN * SE)	0.00009	0.00009	0.00010
	(CK * !D * RN * SE)	-0.00009	-0.00009	-0.00009
	(CK * !D * RN * SE)	0.00104	0.00119	0.00173
	(CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00015
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(CK * !D * !RN * SE)	0.00012	0.00026	0.00082
	(CK * !D * !RN * SE)	0.00007	0.00008	0.00008
	(CK * !D * !RN * SE)	-0.00009	-0.00009	-0.00009
	(CK * !D * !RN * SE)	0.00103	0.00118	0.00173
	(CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * !RN * !SE)	0.00022	0.00023	0.00023
	(!CK * D * RN * SE)	0.00161	0.00176	0.00235
	(!CK * D * RN * SE)	0.00007	0.00008	0.00008
	(!CK * D * RN * SE)	-0.00010	-0.00009	-0.00009
	(!CK * D * RN * SE)	0.00280	0.00295	0.00354
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(!CK * D * !RN * SE)	0.00107	0.00123	0.00182
	(!CK * D * !RN * SE)	-0.00002	-0.00001	0.00000
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * D * !RN * SE)	0.00177	0.00192	0.00251
	(!CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00022	0.00022	0.00023
	(!CK * !D * RN * SE)	0.00161	0.00177	0.00235
	(!CK * !D * RN * SE)	0.00007	0.00007	0.00008
	(!CK * !D * RN * SE)	-0.00010	-0.00010	-0.00009
	(!CK * !D * RN * SE)	0.00280	0.00296	0.00354
	(!CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(!CK * !D * !RN * SE)	0.00108	0.00124	0.00182
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SE)	0.00000	0.00000	0.00001
	(!CK * !D * !RN * SE)	0.00177	0.00193	0.00251
	(!CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(!CK * !D * !RN * !SE)	0.00022	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7L	**(CK * D * RN * SE)**	0.00155	0.00171	0.00231
	(CK * D * RN * SE)	-0.00010	-0.00009	-0.00009
	(CK * D * RN * SE)	0.00008	0.00009	0.00009
	(CK * D * RN * SE)	0.00063	0.00079	0.00140
	(CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00020	-0.00020	-0.00020
	(CK * D * !RN * SE)	0.00154	0.00170	0.00231
	(CK * D * !RN * SE)	-0.00009	-0.00008	-0.00007
	(CK * D * !RN * SE)	0.00009	0.00009	0.00009
	(CK * D * !RN * SE)	0.00063	0.00079	0.00140
	(CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00020	-0.00020	-0.00020
	(CK * !D * RN * SE)	0.00154	0.00170	0.00231
	(CK * !D * RN * SE)	-0.00010	-0.00009	-0.00009
	(CK * !D * RN * SE)	0.00009	0.00009	0.00009
	(CK * !D * RN * SE)	0.00063	0.00079	0.00140
	(CK * !D * RN * !SE)	0.00018	0.00018	0.00019
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * RN * !SE)	-0.00020	-0.00020	-0.00019
	(CK * !D * !RN * SE)	0.00154	0.00170	0.00230
	(CK * !D * !RN * SE)	-0.00008	-0.00008	-0.00007
	(CK * !D * !RN * SE)	0.00009	0.00009	0.00009
	(CK * !D * !RN * SE)	0.00063	0.00079	0.00139
	(CK * !D * !RN * !SE)	0.00017	0.00018	0.00019
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * !RN * !SE)	-0.00020	-0.00020	-0.00019
	(!CK * D * RN * SE)	0.00315	0.00332	0.00398
	(!CK * D * RN * SE)	-0.00008	-0.00007	-0.00006
	(!CK * D * RN * SE)	0.00009	0.00010	0.00011
	(!CK * D * RN * SE)	0.00196	0.00214	0.00280
	(!CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00020	-0.00020	-0.00019
	(!CK * D * !RN * SE)	0.00212	0.00230	0.00294
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * D * !RN * SE)	-0.00001	-0.00000	0.00000
	(!CK * D * !RN * SE)	0.00143	0.00161	0.00227
	(!CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00020	-0.00020	-0.00020
	(!CK * !D * RN * SE)	0.00314	0.00332	0.00397
	(!CK * !D * RN * SE)	-0.00008	-0.00007	-0.00006
	(!CK * !D * RN * SE)	0.00009	0.00010	0.00011
	(!CK * !D * RN * SE)	0.00194	0.00213	0.00280
	(!CK * !D * RN * !SE)	0.00017	0.00018	0.00019
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * RN * !SE)	-0.00020	-0.00020	-0.00019
	(!CK * !D * !RN * SE)	0.00211	0.00229	0.00294
	(!CK * !D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SE)	-0.00001	-0.00000	0.00000
	(!CK * !D * !RN * SE)	0.00142	0.00161	0.00227
	(!CK * !D * !RN * !SE)	0.00017	0.00018	0.00019
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !RN * !SE)	-0.00020	-0.00020	-0.00019

SDFFRX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX3H7L	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX3H7L	0.00106	0.00076	0.00215	0.00196	0.00074	0.13296	0.13333

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX3H7L	0.00000	9.92017	13.71370

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7L	CK->Q (RR)	-	0.08023	0.22332	0.54844

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7L	CK->Q (RF)	-	0.06221	0.17149	0.40131
	RN->Q (FF)	(CK * D * SE * SI)	0.03468	0.14725	0.40426
	RN->Q (FF)	(CK * D * SE * !SI)	0.03468	0.14725	0.40438
	RN->Q (FF)	(CK * D * !SE * SI)	0.03467	0.14725	0.40438
	RN->Q (FF)	(CK * D * !SE * !SI)	0.03467	0.14725	0.40438
	RN->Q (FF)	(CK * !D * SE * SI)	0.03468	0.14725	0.40438
	RN->Q (FF)	(CK * !D * SE * !SI)	0.03468	0.14725	0.40428
	RN->Q (FF)	(CK * !D * !SE * SI)	0.03468	0.14725	0.40438
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.03468	0.14725	0.40438
	RN->Q (FF)	(!CK * D * SE * SI)	0.04976	0.17936	0.47080
	RN->Q (FF)	(!CK * D * SE * !SI)	0.04972	0.17918	0.47065
	RN->Q (FF)	(!CK * D * !SE * SI)	0.04976	0.17936	0.47078
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.04976	0.17936	0.47078
	RN->Q (FF)	(!CK * !D * SE * SI)	0.04976	0.17936	0.47077
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.04972	0.17918	0.47065
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.04972	0.17918	0.47067
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.04972	0.17918	0.47067

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7L	CK->QN (RR)	-	0.09692	0.22867	0.55082
	RN->QN (FR)	(CK * D * SE * SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * D * SE * !SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * D * !SE * SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * !D * SE * SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06182	0.20674	0.55577
	RN->QN (FR)	(!CK * D * SE * SI)	0.08416	0.23920	0.61974
	RN->QN (FR)	(!CK * D * SE * !SI)	0.08410	0.23901	0.61965
	RN->QN (FR)	(!CK * D * !SE * SI)	0.08416	0.23920	0.61974
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.08416	0.23920	0.61974
	RN->QN (FR)	(!CK * !D * SE * SI)	0.08416	0.23920	0.61974
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.08410	0.23901	0.61956
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.08410	0.23902	0.61949
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.08410	0.23902	0.61949

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7L	CK->QN (RF)	-	0.11069	0.20815	0.42800

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	**hold**	**CK (R)**	-0.04030	-0.01170	0.01351
	setup	**CK (R)**	0.00918	0.04247	0.08133

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	**hold**	**CK (R)**	-0.16060	-0.07495	-0.03441
	setup	**CK (R)**	0.05117	0.09604	0.18643

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX3H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	**hold**	**CK (R)**	0.03419	0.06369	0.09071
	setup	**CK (R)**	-0.06359	0.02378	0.26167

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	hold	CK (R)	-0.03045	-0.00637	0.01425
	setup	CK (R)	0.06998	0.08693	0.10826

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	hold	CK (R)	-0.11337	-0.04048	0.00327
	setup	CK (R)	0.03949	0.08205	0.15725

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	hold	CK (R)	-0.04599	-0.01523	0.01188
	setup	CK (R)	0.00813	0.04601	0.08769

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7L	hold	CK (R)	-0.17687	-0.08371	-0.04123
	setup	CK (R)	0.06098	0.10533	0.20077

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7L	CK	-	0.00269	0.00291	0.00363
	CK	-	0.00000	0.00002	0.00004
	CK	-	-0.00003	-0.00001	0.00000
	CK	-	0.00316	0.00338	0.00412

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7L	CK	-	0.00266	0.00287	0.00366
	CK	-	-0.00002	-0.00002	0.00000
	CK	-	0.00000	0.00001	0.00003
	CK	-	0.00293	0.00315	0.00393
	RN	(CK * D * SE * SI)	0.00284	0.00310	0.00420
	RN	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00001
	RN	(CK * D * SE * SI)	-0.00004	-0.00001	0.00003
	RN	(CK * D * SE * SI)	0.00204	0.00232	0.00342
	RN	(CK * D * SE * !SI)	0.00284	0.00310	0.00420
	RN	(CK * D * SE * !SI)	-0.00003	-0.00003	0.00000
	RN	(CK * D * SE * !SI)	-0.00004	-0.00001	0.00003
	RN	(CK * D * SE * !SI)	0.00203	0.00232	0.00342
	RN	(CK * D * !SE * SI)	0.00282	0.00310	0.00420
	RN	(CK * D * !SE * SI)	-0.00004	-0.00003	0.00000
	RN	(CK * D * !SE * SI)	-0.00002	-0.00001	0.00003
	RN	(CK * D * !SE * SI)	0.00204	0.00232	0.00342
	RN	(CK * D * !SE * !SI)	0.00282	0.00310	0.00420
	RN	(CK * D * !SE * !SI)	-0.00004	-0.00003	0.00000
	RN	(CK * D * !SE * !SI)	-0.00002	-0.00001	0.00003
	RN	(CK * D * !SE * !SI)	0.00204	0.00232	0.00342
	RN	(CK * !D * SE * SI)	0.00284	0.00310	0.00420
	RN	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00001
	RN	(CK * !D * SE * SI)	-0.00005	-0.00001	0.00002
	RN	(CK * !D * SE * SI)	0.00206	0.00232	0.00342
	RN	(CK * !D * SE * !SI)	0.00284	0.00310	0.00420
	RN	(CK * !D * SE * !SI)	-0.00003	-0.00003	0.00000
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00001	0.00003
	RN	(CK * !D * SE * !SI)	0.00203	0.00232	0.00342
	RN	(CK * !D * !SE * SI)	0.00283	0.00310	0.00420
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00003	0.00000
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00001	0.00003
	RN	(CK * !D * !SE * SI)	0.00203	0.00233	0.00342
	RN	(CK * !D * !SE * !SI)	0.00283	0.00310	0.00420
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00003	0.00000
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00001	0.00003
	RN	(CK * !D * !SE * !SI)	0.00203	0.00233	0.00342
	RN	(!CK * D * SE * SI)	0.00262	0.00301	0.00471
	RN	(!CK * D * SE * SI)	-0.00008	-0.00007	-0.00006
	RN	(!CK * D * SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * D * SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * D * SE * !SI)	0.00224	0.00244	0.00345
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	0.00157	0.00178	0.00280
	RN	(!CK * D * !SE * SI)	0.00262	0.00301	0.00471
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00007	-0.00005
	RN	(!CK * D * !SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * D * !SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * D * !SE * !SI)	0.00262	0.00301	0.00471
	RN	(!CK * D * !SE * !SI)	-0.00011	-0.00007	-0.00005
	RN	(!CK * D * !SE * !SI)	0.00003	0.00005	0.00008
	RN	(!CK * D * !SE * !SI)	0.00173	0.00212	0.00382
	RN	(!CK * !D * SE * SI)	0.00262	0.00301	0.00471
	RN	(!CK * !D * SE * SI)	-0.00009	-0.00007	-0.00007
	RN	(!CK * !D * SE * SI)	0.00003	0.00005	0.00009
	RN	(!CK * !D * SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * !D * SE * !SI)	0.00224	0.00244	0.00345
	RN	(!CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	0.00157	0.00178	0.00280
	RN	(!CK * !D * !SE * SI)	0.00224	0.00244	0.00346
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00001
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00001	0.00004
	RN	(!CK * !D * !SE * SI)	0.00157	0.00178	0.00280
	RN	(!CK * !D * !SE * !SI)	0.00224	0.00244	0.00346
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00001
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00001	0.00004
	RN	(!CK * !D * !SE * !SI)	0.00157	0.00178	0.00280

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7L	CK	-	0.00266	0.00287	0.00366
	CK	-	-0.00003	-0.00002	0.00000
	CK	-	0.00001	0.00001	0.00003
	CK	-	0.00294	0.00315	0.00394
	RN	(CK * D * SE * SI)	0.00285	0.00310	0.00421
	RN	(CK * D * SE * SI)	-0.00007	-0.00003	-0.00003
	RN	(CK * D * SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * SE * SI)	0.00207	0.00233	0.00342
	RN	(CK * D * SE * !SI)	0.00285	0.00310	0.00421
	RN	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * D * SE * !SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * SE * !SI)	0.00207	0.00233	0.00342
	RN	(CK * D * !SE * SI)	0.00285	0.00310	0.00421
	RN	(CK * D * !SE * SI)	-0.00003	-0.00003	0.00001
	RN	(CK * D * !SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * !SE * SI)	0.00207	0.00233	0.00342
	RN	(CK * D * !SE * !SI)	0.00285	0.00310	0.00421
	RN	(CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * D * !SE * !SI)	0.00207	0.00233	0.00342
	RN	(CK * !D * SE * SI)	0.00285	0.00310	0.00421
	RN	(CK * !D * SE * SI)	-0.00007	-0.00003	-0.00003
	RN	(CK * !D * SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * !D * SE * SI)	0.00207	0.00233	0.00342
	RN	(CK * !D * SE * !SI)	0.00285	0.00310	0.00421
	RN	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * !D * SE * !SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * !D * SE * !SI)	0.00207	0.00233	0.00342
	RN	(CK * !D * !SE * SI)	0.00285	0.00310	0.00421
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	RN	(CK * !D * !SE * SI)	-0.00001	-0.00001	0.00007
	RN	(CK * !D * !SE * SI)	0.00207	0.00233	0.00343
	RN	(CK * !D * !SE * !SI)	0.00285	0.00310	0.00421
	RN	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CK * !D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	RN	(CK * !D * !SE * !SI)	0.00207	0.00233	0.00342
	RN	(!CK * D * SE * SI)	0.00263	0.00302	0.00471
	RN	(!CK * D * SE * SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * D * SE * SI)	0.00005	0.00005	0.00008
	RN	(!CK * D * SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * D * SE * !SI)	0.00225	0.00244	0.00346
	RN	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CK * D * SE * !SI)	0.00159	0.00178	0.00281
	RN	(!CK * D * !SE * SI)	0.00262	0.00302	0.00471
	RN	(!CK * D * !SE * SI)	-0.00009	-0.00007	-0.00004
	RN	(!CK * D * !SE * SI)	0.00005	0.00005	0.00008
	RN	(!CK * D * !SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * D * !SE * !SI)	0.00263	0.00302	0.00471
	RN	(!CK * D * !SE * !SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * D * !SE * !SI)	0.00005	0.00005	0.00008
	RN	(!CK * D * !SE * !SI)	0.00173	0.00212	0.00382
	RN	(!CK * !D * SE * SI)	0.00263	0.00302	0.00471
	RN	(!CK * !D * SE * SI)	-0.00007	-0.00007	-0.00007
	RN	(!CK * !D * SE * SI)	0.00005	0.00005	0.00008
	RN	(!CK * !D * SE * SI)	0.00173	0.00212	0.00382
	RN	(!CK * !D * SE * !SI)	0.00225	0.00244	0.00346
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CK * !D * SE * !SI)	0.00159	0.00178	0.00280
	RN	(!CK * !D * !SE * SI)	0.00225	0.00244	0.00346
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00001	0.00001
	RN	(!CK * !D * !SE * SI)	0.00159	0.00178	0.00281
	RN	(!CK * !D * !SE * !SI)	0.00225	0.00244	0.00346
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CK * !D * !SE * !SI)	0.00159	0.00178	0.00281

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7L	CK	-	0.00269	0.00291	0.00362
	CK	-	0.00000	0.00002	0.00003
	CK	-	-0.00002	-0.00001	-0.00001
	CK	-	0.00316	0.00338	0.00411

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(D * RN * SE * SI)**	0.00175	0.00209	0.00332
	(D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00001
	(D * RN * SE * SI)	0.00249	0.00284	0.00407
	(D * RN * SE * !SI)	0.00176	0.00211	0.00333
	(D * RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(D * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * RN * SE * !SI)	0.00251	0.00285	0.00408
	(D * RN * !SE * SI)	0.00184	0.00218	0.00341
	(D * RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(D * RN * !SE * SI)	-0.00001	0.00000	0.00001
	(D * RN * !SE * SI)	0.00259	0.00293	0.00416
	(D * RN * !SE * !SI)	0.00184	0.00218	0.00341
	(D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * !SI)	-0.00001	0.00000	0.00001
	(D * RN * !SE * !SI)	0.00259	0.00293	0.00416
	(D * !RN * SE * SI)	0.00231	0.00264	0.00387
	(D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * SE * SI)	-0.00007	-0.00007	-0.00006
	(D * !RN * SE * SI)	0.00322	0.00356	0.00478
	(D * !RN * SE * !SI)	0.00177	0.00211	0.00333
	(D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !RN * SE * !SI)	0.00251	0.00285	0.00408
	(D * !RN * !SE * SI)	0.00239	0.00273	0.00395
	(D * !RN * !SE * SI)	0.00005	0.00006	0.00007
	(D * !RN * !SE * SI)	-0.00007	-0.00007	-0.00006
	(D * !RN * !SE * SI)	0.00331	0.00364	0.00487
	(D * !RN * !SE * !SI)	0.00239	0.00273	0.00396
	(D * !RN * !SE * !SI)	0.00005	0.00006	0.00007
	(D * !RN * !SE * !SI)	-0.00007	-0.00007	-0.00006
	(D * !RN * !SE * !SI)	0.00331	0.00364	0.00487
	(!D * RN * SE * SI)	0.00175	0.00209	0.00333
	(!D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00249	0.00284	0.00408
	(!D * RN * SE * !SI)	0.00176	0.00210	0.00333
	(!D * RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * RN * SE * !SI)	0.00251	0.00285	0.00408
	(!D * RN * !SE * SI)	0.00186	0.00219	0.00342
	(!D * RN * !SE * SI)	-0.00002	-0.00001	0.00000
	(!D * RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SE * SI)	0.00260	0.00294	0.00417
	(!D * RN * !SE * !SI)	0.00184	0.00219	0.00342
	(!D * RN * !SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SE * !SI)	0.00259	0.00293	0.00417
	(!D * !RN * SE * SI)	0.00231	0.00265	0.00387
	(!D * !RN * SE * SI)	0.00005	0.00006	0.00007
	(!D * !RN * SE * SI)	-0.00007	-0.00007	-0.00006
	(!D * !RN * SE * SI)	0.00322	0.00356	0.00478
	(!D * !RN * SE * !SI)	0.00177	0.00210	0.00333
	(!D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * SE * !SI)	0.00251	0.00285	0.00408
	(!D * !RN * !SE * SI)	0.00186	0.00219	0.00342
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * SI)	0.00259	0.00293	0.00417
	(!D * !RN * !SE * !SI)	0.00186	0.00219	0.00342
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * !SI)	0.00259	0.00293	0.00416

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(D * RN * SE * SI)**	0.00407	0.00446	0.00582
	(D * RN * SE * SI)	0.00000	0.00002	0.00003
	(D * RN * SE * SI)	-0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00364	0.00403	0.00539
	(D * RN * SE * !SI)	0.00418	0.00464	0.00622
	(D * RN * SE * !SI)	0.00000	0.00002	0.00002
	(D * RN * SE * !SI)	0.00002	0.00003	0.00003
	(D * RN * SE * !SI)	0.00314	0.00358	0.00517
	(D * RN * !SE * SI)	0.00398	0.00437	0.00573
	(D * RN * !SE * SI)	0.00000	0.00002	0.00003
	(D * RN * !SE * SI)	0.00000	0.00000	0.00001
	(D * RN * !SE * SI)	0.00356	0.00395	0.00531
	(D * RN * !SE * !SI)	0.00398	0.00437	0.00573
	(D * RN * !SE * !SI)	0.00000	0.00002	0.00003
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00001
	(D * RN * !SE * !SI)	0.00356	0.00395	0.00531
	(D * !RN * SE * SI)	0.00351	0.00389	0.00525
	(D * !RN * SE * SI)	-0.00006	-0.00005	-0.00004
	(D * !RN * SE * SI)	0.00007	0.00007	0.00007
	(D * !RN * SE * SI)	0.00259	0.00298	0.00435
	(D * !RN * SE * !SI)	0.00259	0.00298	0.00434
	(D * !RN * SE * !SI)	-0.00000	0.00001	0.00001
	(D * !RN * SE * !SI)	-0.00000	0.00000	0.00001
	(D * !RN * SE * !SI)	0.00185	0.00223	0.00360
	(D * !RN * !SE * SI)	0.00342	0.00381	0.00517
	(D * !RN * !SE * SI)	-0.00006	-0.00006	-0.00005
	(D * !RN * !SE * SI)	0.00007	0.00007	0.00007
	(D * !RN * !SE * SI)	0.00251	0.00290	0.00426
	(D * !RN * !SE * !SI)	0.00342	0.00381	0.00517
	(D * !RN * !SE * !SI)	-0.00006	-0.00006	-0.00005
	(D * !RN * !SE * !SI)	0.00007	0.00007	0.00007
	(D * !RN * !SE * !SI)	0.00251	0.00290	0.00426
	(!D * RN * SE * SI)	0.00408	0.00446	0.00581
	(!D * RN * SE * SI)	0.00000	0.00002	0.00003
	(!D * RN * SE * SI)	-0.00000	0.00000	0.00001
	(!D * RN * SE * SI)	0.00367	0.00404	0.00539
	(!D * RN * SE * !SI)	0.00418	0.00463	0.00622
	(!D * RN * SE * !SI)	0.00000	0.00002	0.00002
	(!D * RN * SE * !SI)	0.00002	0.00003	0.00003
	(!D * RN * SE * !SI)	0.00312	0.00358	0.00516
	(!D * RN * !SE * SI)	0.00408	0.00455	0.00614
	(!D * RN * !SE * SI)	0.00000	0.00002	0.00004
	(!D * RN * !SE * SI)	0.00002	0.00003	0.00003
	(!D * RN * !SE * SI)	0.00304	0.00349	0.00508
	(!D * RN * !SE * !SI)	0.00408	0.00455	0.00614
	(!D * RN * !SE * !SI)	0.00000	0.00002	0.00004
	(!D * RN * !SE * !SI)	0.00002	0.00003	0.00003
	(!D * RN * !SE * !SI)	0.00304	0.00349	0.00508
	(!D * !RN * SE * SI)	0.00349	0.00388	0.00525
	(!D * !RN * SE * SI)	-0.00006	-0.00005	-0.00004
	(!D * !RN * SE * SI)	0.00006	0.00007	0.00007
	(!D * !RN * SE * SI)	0.00260	0.00299	0.00435
	(!D * !RN * SE * !SI)	0.00259	0.00298	0.00434
	(!D * !RN * SE * !SI)	-0.00000	0.00001	0.00001
	(!D * !RN * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !RN * SE * !SI)	0.00185	0.00223	0.00360
	(!D * !RN * !SE * SI)	0.00250	0.00290	0.00426
	(!D * !RN * !SE * SI)	-0.00000	0.00001	0.00001
	(!D * !RN * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * !RN * !SE * SI)	0.00177	0.00215	0.00351
	(!D * !RN * !SE * !SI)	0.00250	0.00289	0.00426
	(!D * !RN * !SE * !SI)	-0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !RN * !SE * !SI)	0.00176	0.00215	0.00351

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * RN * SE * SI)**	-0.00013	-0.00012	-0.00011
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00030	0.00031	0.00032
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * RN * !SE * SI)	0.00045	0.00062	0.00127
	(CK * RN * !SE * SI)	0.00010	0.00010	0.00011
	(CK * RN * !SE * SI)	-0.00009	-0.00009	-0.00009
	(CK * RN * !SE * SI)	0.00143	0.00160	0.00225
	(CK * RN * !SE * !SI)	0.00045	0.00062	0.00127
	(CK * RN * !SE * !SI)	0.00010	0.00010	0.00010
	(CK * RN * !SE * !SI)	-0.00009	-0.00009	-0.00009
	(CK * RN * !SE * !SI)	0.00143	0.00160	0.00225
	(CK * !RN * SE * SI)	-0.00013	-0.00012	-0.00011
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00030	0.00030	0.00032
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(CK * !RN * SE * !SI)	0.00028	0.00028	0.00029
	(CK * !RN * !SE * SI)	0.00044	0.00061	0.00128
	(CK * !RN * !SE * SI)	0.00009	0.00010	0.00010
	(CK * !RN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * SI)	0.00143	0.00160	0.00225
	(CK * !RN * !SE * !SI)	0.00044	0.00062	0.00128
	(CK * !RN * !SE * !SI)	0.00009	0.00010	0.00010
	(CK * !RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * !SI)	0.00143	0.00160	0.00225
	(!CK * RN * SE * SI)	-0.00013	-0.00012	-0.00010
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00030	0.00031	0.00032
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * RN * SE * !SI)	0.00028	0.00028	0.00029
	(!CK * RN * !SE * SI)	0.00201	0.00219	0.00287
	(!CK * RN * !SE * SI)	0.00007	0.00008	0.00009
	(!CK * RN * !SE * SI)	-0.00011	-0.00010	-0.00008
	(!CK * RN * !SE * SI)	0.00328	0.00347	0.00415
	(!CK * RN * !SE * !SI)	0.00201	0.00219	0.00288
	(!CK * RN * !SE * !SI)	0.00007	0.00008	0.00009
	(!CK * RN * !SE * !SI)	-0.00011	-0.00010	-0.00009
	(!CK * RN * !SE * !SI)	0.00328	0.00346	0.00415
	(!CK * !RN * SE * SI)	-0.00013	-0.00012	-0.00010
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00030	0.00031	0.00032
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !RN * SE * !SI)	0.00028	0.00028	0.00029
	(!CK * !RN * !SE * SI)	0.00145	0.00163	0.00233
	(!CK * !RN * !SE * SI)	-0.00001	-0.00000	0.00001
	(!CK * !RN * !SE * SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * SI)	0.00220	0.00238	0.00307
	(!CK * !RN * !SE * !SI)	0.00145	0.00163	0.00233
	(!CK * !RN * !SE * !SI)	-0.00001	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	0.00220	0.00238	0.00307

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * RN * SE * SI)**	0.00015	0.00015	0.00015
	(CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * RN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(CK * RN * !SE * SI)	0.00133	0.00152	0.00225
	(CK * RN * !SE * SI)	-0.00011	-0.00010	-0.00010
	(CK * RN * !SE * SI)	0.00009	0.00009	0.00009
	(CK * RN * !SE * SI)	0.00034	0.00054	0.00127
	(CK * RN * !SE * !SI)	0.00133	0.00152	0.00225
	(CK * RN * !SE * !SI)	-0.00010	-0.00010	-0.00010
	(CK * RN * !SE * !SI)	0.00009	0.00009	0.00009
	(CK * RN * !SE * !SI)	0.00034	0.00054	0.00127
	(CK * !RN * SE * SI)	0.00015	0.00015	0.00015
	(CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(CK * !RN * SE * !SI)	-0.00026	-0.00026	-0.00024
	(CK * !RN * !SE * SI)	0.00133	0.00152	0.00225
	(CK * !RN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * SI)	0.00009	0.00010	0.00010
	(CK * !RN * !SE * SI)	0.00033	0.00053	0.00126
	(CK * !RN * !SE * !SI)	0.00132	0.00152	0.00225
	(CK * !RN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(CK * !RN * !SE * !SI)	0.00009	0.00010	0.00010
	(CK * !RN * !SE * !SI)	0.00033	0.00053	0.00126
	(!CK * RN * SE * SI)	0.00015	0.00015	0.00015
	(!CK * RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00028	-0.00028	-0.00028
	(!CK * RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * RN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(!CK * RN * !SE * SI)	0.00300	0.00321	0.00399
	(!CK * RN * !SE * SI)	-0.00009	-0.00008	-0.00007
	(!CK * RN * !SE * SI)	0.00008	0.00010	0.00012
	(!CK * RN * !SE * SI)	0.00172	0.00193	0.00271
	(!CK * RN * !SE * !SI)	0.00300	0.00321	0.00399
	(!CK * RN * !SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CK * RN * !SE * !SI)	0.00009	0.00010	0.00012
	(!CK * RN * !SE * !SI)	0.00172	0.00193	0.00271
	(!CK * !RN * SE * SI)	0.00015	0.00015	0.00015
	(!CK * !RN * SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00028	-0.00028	-0.00028
	(!CK * !RN * SE * !SI)	0.00016	0.00017	0.00018
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !RN * SE * !SI)	-0.00026	-0.00026	-0.00024
	(!CK * !RN * !SE * SI)	0.00192	0.00213	0.00290
	(!CK * !RN * !SE * SI)	-0.00001	0.00000	0.00001
	(!CK * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * SI)	0.00117	0.00138	0.00216
	(!CK * !RN * !SE * !SI)	0.00192	0.00213	0.00290
	(!CK * !RN * !SE * !SI)	-0.00001	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * !SI)	0.00118	0.00138	0.00216

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * D * SE * SI)**	-0.00063	-0.00062	-0.00061
	(CK * D * SE * SI)	-0.00001	-0.00000	0.00000
	(CK * D * SE * SI)	0.00003	0.00003	0.00005
	(CK * D * SE * SI)	0.00044	0.00046	0.00047
	(CK * D * SE * !SI)	-0.00062	-0.00062	-0.00061
	(CK * D * SE * !SI)	-0.00002	-0.00001	0.00000
	(CK * D * SE * !SI)	0.00003	0.00003	0.00005
	(CK * D * SE * !SI)	0.00044	0.00046	0.00047
	(CK * D * !SE * SI)	-0.00062	-0.00062	-0.00061
	(CK * D * !SE * SI)	-0.00001	-0.00000	0.00000
	(CK * D * !SE * SI)	0.00001	0.00003	0.00004
	(CK * D * !SE * SI)	0.00045	0.00047	0.00049
	(CK * D * !SE * !SI)	-0.00062	-0.00062	-0.00061
	(CK * D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(CK * D * !SE * !SI)	0.00001	0.00003	0.00004
	(CK * D * !SE * !SI)	0.00045	0.00047	0.00049
	(CK * !D * SE * SI)	-0.00062	-0.00062	-0.00061
	(CK * !D * SE * SI)	-0.00001	-0.00000	0.00000
	(CK * !D * SE * SI)	0.00003	0.00003	0.00005
	(CK * !D * SE * SI)	0.00044	0.00046	0.00046
	(CK * !D * SE * !SI)	-0.00063	-0.00062	-0.00061
	(CK * !D * SE * !SI)	-0.00001	-0.00000	0.00000
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00005
	(CK * !D * SE * !SI)	0.00044	0.00046	0.00046
	(CK * !D * !SE * SI)	-0.00062	-0.00062	-0.00061
	(CK * !D * !SE * SI)	-0.00002	-0.00001	0.00000
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00005
	(CK * !D * !SE * SI)	0.00044	0.00046	0.00047
	(CK * !D * !SE * !SI)	-0.00062	-0.00062	-0.00061
	(CK * !D * !SE * !SI)	-0.00002	-0.00001	0.00000
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00005
	(CK * !D * !SE * !SI)	0.00044	0.00046	0.00047
	(!CK * D * SE * SI)	-0.00005	0.00029	0.00150
	(!CK * D * SE * SI)	0.00009	0.00009	0.00011
	(!CK * D * SE * SI)	-0.00005	-0.00005	-0.00004
	(!CK * D * SE * SI)	0.00150	0.00185	0.00306
	(!CK * D * SE * !SI)	-0.00062	-0.00061	-0.00061
	(!CK * D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * D * SE * !SI)	0.00003	0.00003	0.00006
	(!CK * D * SE * !SI)	0.00045	0.00047	0.00048
	(!CK * D * !SE * SI)	-0.00005	0.00029	0.00150
	(!CK * D * !SE * SI)	0.00008	0.00009	0.00009
	(!CK * D * !SE * SI)	-0.00005	-0.00004	-0.00002
	(!CK * D * !SE * SI)	0.00150	0.00185	0.00306
	(!CK * D * !SE * !SI)	-0.00005	0.00029	0.00150
	(!CK * D * !SE * !SI)	0.00009	0.00009	0.00009
	(!CK * D * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * !SE * !SI)	0.00150	0.00186	0.00306
	(!CK * !D * SE * SI)	-0.00005	0.00029	0.00150
	(!CK * !D * SE * SI)	0.00009	0.00009	0.00009
	(!CK * !D * SE * SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SE * SI)	0.00150	0.00185	0.00306
	(!CK * !D * SE * !SI)	-0.00062	-0.00062	-0.00061
	(!CK * !D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00003	0.00003	0.00005
	(!CK * !D * SE * !SI)	0.00046	0.00047	0.00048
	(!CK * !D * !SE * SI)	-0.00062	-0.00061	-0.00061
	(!CK * !D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * !SE * SI)	0.00046	0.00047	0.00048
	(!CK * !D * !SE * !SI)	-0.00062	-0.00061	-0.00061
	(!CK * !D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !SE * !SI)	0.00046	0.00047	0.00048

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * D * SE * SI)**	0.00063	0.00063	0.00064
	(CK * D * SE * SI)	0.00000	0.00000	0.00001
	(CK * D * SE * SI)	-0.00004	-0.00003	-0.00002
	(CK * D * SE * SI)	-0.00045	-0.00045	-0.00044
	(CK * D * SE * !SI)	0.00062	0.00063	0.00064
	(CK * D * SE * !SI)	0.00000	0.00001	0.00002
	(CK * D * SE * !SI)	-0.00004	-0.00003	-0.00002
	(CK * D * SE * !SI)	-0.00045	-0.00045	-0.00044
	(CK * D * !SE * SI)	0.00063	0.00063	0.00064
	(CK * D * !SE * SI)	-0.00000	0.00000	0.00001
	(CK * D * !SE * SI)	-0.00004	-0.00003	-0.00001
	(CK * D * !SE * SI)	-0.00045	-0.00045	-0.00044
	(CK * D * !SE * !SI)	0.00063	0.00063	0.00064
	(CK * D * !SE * !SI)	-0.00000	0.00000	0.00001
	(CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00001
	(CK * D * !SE * !SI)	-0.00045	-0.00045	-0.00044
	(CK * !D * SE * SI)	0.00063	0.00063	0.00064
	(CK * !D * SE * SI)	0.00000	0.00000	0.00001
	(CK * !D * SE * SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * SE * SI)	-0.00045	-0.00045	-0.00044
	(CK * !D * SE * !SI)	0.00063	0.00063	0.00064
	(CK * !D * SE * !SI)	0.00000	0.00000	0.00001
	(CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * SE * !SI)	-0.00045	-0.00045	-0.00044
	(CK * !D * !SE * SI)	0.00062	0.00063	0.00064
	(CK * !D * !SE * SI)	0.00000	0.00001	0.00002
	(CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * !SE * SI)	-0.00045	-0.00045	-0.00044
	(CK * !D * !SE * !SI)	0.00062	0.00063	0.00064
	(CK * !D * !SE * !SI)	0.00000	0.00001	0.00002
	(CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * !SE * !SI)	-0.00045	-0.00045	-0.00044
	(!CK * D * SE * SI)	0.00137	0.00178	0.00317
	(!CK * D * SE * SI)	-0.00009	-0.00009	-0.00009
	(!CK * D * SE * SI)	0.00004	0.00005	0.00005
	(!CK * D * SE * SI)	-0.00019	0.00022	0.00158
	(!CK * D * SE * !SI)	0.00063	0.00063	0.00063
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * D * SE * !SI)	-0.00003	-0.00002	0.00000
	(!CK * D * SE * !SI)	-0.00046	-0.00046	-0.00045
	(!CK * D * !SE * SI)	0.00138	0.00178	0.00314
	(!CK * D * !SE * SI)	-0.00009	-0.00009	-0.00008
	(!CK * D * !SE * SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * SI)	-0.00018	0.00022	0.00158
	(!CK * D * !SE * !SI)	0.00138	0.00178	0.00314
	(!CK * D * !SE * !SI)	-0.00009	-0.00009	-0.00009
	(!CK * D * !SE * !SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * !SI)	-0.00018	0.00022	0.00158
	(!CK * !D * SE * SI)	0.00137	0.00178	0.00314
	(!CK * !D * SE * SI)	-0.00009	-0.00009	-0.00009
	(!CK * !D * SE * SI)	0.00004	0.00005	0.00005
	(!CK * !D * SE * SI)	-0.00019	0.00022	0.00158
	(!CK * !D * SE * !SI)	0.00063	0.00063	0.00063
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !D * SE * !SI)	-0.00003	-0.00002	0.00000
	(!CK * !D * SE * !SI)	-0.00046	-0.00046	-0.00045
	(!CK * !D * !SE * SI)	0.00062	0.00063	0.00063
	(!CK * !D * !SE * SI)	0.00000	0.00001	0.00004
	(!CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00002
	(!CK * !D * !SE * SI)	-0.00046	-0.00045	-0.00042
	(!CK * !D * !SE * !SI)	0.00062	0.00063	0.00063
	(!CK * !D * !SE * !SI)	0.00000	0.00001	0.00004
	(!CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00002
	(!CK * !D * !SE * !SI)	-0.00046	-0.00045	-0.00042

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * D * RN * SI)**	-0.00013	0.00026	0.00159
	(CK * D * RN * SI)	0.00002	0.00002	0.00002
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00109	0.00149	0.00282
	(CK * D * RN * !SI)	0.00132	0.00170	0.00306
	(CK * D * RN * !SI)	-0.00005	-0.00005	-0.00004
	(CK * D * RN * !SI)	0.00004	0.00005	0.00007
	(CK * D * RN * !SI)	0.00213	0.00251	0.00385
	(CK * D * !RN * SI)	-0.00013	0.00026	0.00159
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00109	0.00149	0.00282
	(CK * D * !RN * !SI)	0.00132	0.00171	0.00306
	(CK * D * !RN * !SI)	-0.00007	-0.00005	-0.00004
	(CK * D * !RN * !SI)	0.00005	0.00005	0.00007
	(CK * D * !RN * !SI)	0.00213	0.00251	0.00384
	(CK * !D * RN * SI)	-0.00001	0.00067	0.00296
	(CK * !D * RN * SI)	0.00008	0.00010	0.00010
	(CK * !D * RN * SI)	-0.00009	-0.00009	-0.00008
	(CK * !D * RN * SI)	0.00162	0.00230	0.00460
	(CK * !D * RN * !SI)	-0.00003	0.00036	0.00170
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00004
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00120	0.00160	0.00294
	(CK * !D * !RN * SI)	-0.00003	0.00066	0.00296
	(CK * !D * !RN * SI)	0.00009	0.00010	0.00010
	(CK * !D * !RN * SI)	-0.00010	-0.00010	-0.00009
	(CK * !D * !RN * SI)	0.00162	0.00230	0.00460
	(CK * !D * !RN * !SI)	-0.00004	0.00036	0.00170
	(CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SI)	0.00120	0.00159	0.00293
	(!CK * D * RN * SI)	-0.00005	0.00035	0.00168
	(!CK * D * RN * SI)	0.00002	0.00002	0.00003
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00118	0.00157	0.00290
	(!CK * D * RN * !SI)	0.00307	0.00346	0.00482
	(!CK * D * RN * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * D * RN * !SI)	0.00004	0.00005	0.00007
	(!CK * D * RN * !SI)	0.00362	0.00399	0.00532
	(!CK * D * !RN * SI)	-0.00005	0.00035	0.00168
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00118	0.00157	0.00290
	(!CK * D * !RN * !SI)	0.00200	0.00238	0.00373
	(!CK * D * !RN * !SI)	0.00004	0.00005	0.00006
	(!CK * D * !RN * !SI)	-0.00006	-0.00005	-0.00003
	(!CK * D * !RN * !SI)	0.00305	0.00344	0.00477
	(!CK * !D * RN * SI)	0.00162	0.00232	0.00467
	(!CK * !D * RN * SI)	0.00006	0.00008	0.00010
	(!CK * !D * RN * SI)	-0.00010	-0.00009	-0.00007
	(!CK * !D * RN * SI)	0.00355	0.00425	0.00660
	(!CK * !D * RN * !SI)	0.00005	0.00045	0.00179
	(!CK * !D * RN * !SI)	0.00001	0.00002	0.00002
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * RN * !SI)	0.00127	0.00168	0.00302
	(!CK * !D * !RN * SI)	0.00106	0.00177	0.00412
	(!CK * !D * !RN * SI)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00003
	(!CK * !D * !RN * SI)	0.00245	0.00316	0.00551
	(!CK * !D * !RN * !SI)	0.00004	0.00044	0.00178
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !RN * !SI)	0.00128	0.00168	0.00302

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * D * RN * SI)**	0.00117	0.00162	0.00309
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00001	0.00002	0.00002
	(CK * D * RN * SI)	-0.00004	0.00040	0.00187
	(CK * D * RN * !SI)	0.00173	0.00219	0.00371
	(CK * D * RN * !SI)	0.00004	0.00005	0.00007
	(CK * D * RN * !SI)	-0.00005	-0.00005	-0.00004
	(CK * D * RN * !SI)	0.00091	0.00138	0.00294
	(CK * D * !RN * SI)	0.00117	0.00162	0.00309
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00006	0.00040	0.00187
	(CK * D * !RN * !SI)	0.00172	0.00219	0.00370
	(CK * D * !RN * !SI)	0.00004	0.00005	0.00007
	(CK * D * !RN * !SI)	-0.00005	-0.00005	-0.00005
	(CK * D * !RN * !SI)	0.00091	0.00138	0.00294
	(CK * !D * RN * SI)	0.00193	0.00269	0.00520
	(CK * !D * RN * SI)	-0.00010	-0.00010	-0.00008
	(CK * !D * RN * SI)	0.00008	0.00009	0.00009
	(CK * !D * RN * SI)	0.00030	0.00106	0.00357
	(CK * !D * RN * !SI)	0.00107	0.00152	0.00298
	(CK * !D * RN * !SI)	-0.00004	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * RN * !SI)	-0.00015	0.00029	0.00175
	(CK * !D * !RN * SI)	0.00194	0.00269	0.00520
	(CK * !D * !RN * SI)	-0.00010	-0.00009	-0.00008
	(CK * !D * !RN * SI)	0.00009	0.00010	0.00010
	(CK * !D * !RN * SI)	0.00031	0.00106	0.00356
	(CK * !D * !RN * !SI)	0.00107	0.00152	0.00298
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00015	0.00029	0.00175
	(!CK * D * RN * SI)	0.00109	0.00154	0.00301
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00012	0.00032	0.00178
	(!CK * D * RN * !SI)	0.00322	0.00368	0.00519
	(!CK * D * RN * !SI)	0.00002	0.00003	0.00003
	(!CK * D * RN * !SI)	-0.00006	-0.00005	-0.00004
	(!CK * D * RN * !SI)	0.00267	0.00315	0.00471
	(!CK * D * !RN * SI)	0.00109	0.00154	0.00301
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00012	0.00032	0.00178
	(!CK * D * !RN * !SI)	0.00266	0.00312	0.00464
	(!CK * D * !RN * !SI)	-0.00006	-0.00004	-0.00003
	(!CK * D * !RN * !SI)	0.00003	0.00005	0.00006
	(!CK * D * !RN * !SI)	0.00160	0.00208	0.00363
	(!CK * !D * RN * SI)	0.00352	0.00429	0.00687
	(!CK * !D * RN * SI)	-0.00008	-0.00007	-0.00006
	(!CK * !D * RN * SI)	0.00007	0.00010	0.00011
	(!CK * !D * RN * SI)	0.00159	0.00237	0.00494
	(!CK * !D * RN * !SI)	0.00098	0.00143	0.00290
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * RN * !SI)	-0.00025	0.00020	0.00167
	(!CK * !D * !RN * SI)	0.00243	0.00321	0.00578
	(!CK * !D * !RN * SI)	-0.00000	0.00001	0.00002
	(!CK * !D * !RN * SI)	-0.00003	-0.00001	0.00000
	(!CK * !D * !RN * SI)	0.00106	0.00183	0.00439
	(!CK * !D * !RN * !SI)	0.00098	0.00143	0.00290
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00002
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !RN * !SI)	-0.00025	0.00020	0.00167

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7L	**(CK * D * RN * SE)**	0.00012	0.00027	0.00082
	(CK * D * RN * SE)	0.00009	0.00010	0.00011
	(CK * D * RN * SE)	-0.00009	-0.00009	-0.00008
	(CK * D * RN * SE)	0.00103	0.00118	0.00172
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(CK * D * !RN * SE)	0.00012	0.00027	0.00082
	(CK * D * !RN * SE)	0.00008	0.00009	0.00009
	(CK * D * !RN * SE)	-0.00009	-0.00009	-0.00009
	(CK * D * !RN * SE)	0.00102	0.00117	0.00172
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * RN * SE)	0.00012	0.00027	0.00082
	(CK * !D * RN * SE)	0.00009	0.00010	0.00010
	(CK * !D * RN * SE)	-0.00009	-0.00009	-0.00009
	(CK * !D * RN * SE)	0.00103	0.00118	0.00172
	(CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00015
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(CK * !D * !RN * SE)	0.00013	0.00027	0.00082
	(CK * !D * !RN * SE)	0.00008	0.00009	0.00009
	(CK * !D * !RN * SE)	-0.00009	-0.00009	-0.00008
	(CK * !D * !RN * SE)	0.00102	0.00117	0.00172
	(CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00015
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00000	0.00000	0.00000
	(CK * !D * !RN * !SE)	0.00022	0.00023	0.00023
	(!CK * D * RN * SE)	0.00169	0.00184	0.00243
	(!CK * D * RN * SE)	0.00007	0.00008	0.00009
	(!CK * D * RN * SE)	-0.00010	-0.00009	-0.00008
	(!CK * D * RN * SE)	0.00288	0.00304	0.00362
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(!CK * D * !RN * SE)	0.00114	0.00129	0.00188
	(!CK * D * !RN * SE)	-0.00001	-0.00001	0.00000
	(!CK * D * !RN * SE)	0.00001	0.00001	0.00002
	(!CK * D * !RN * SE)	0.00180	0.00195	0.00254
	(!CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00022	0.00022	0.00023
	(!CK * !D * RN * SE)	0.00170	0.00185	0.00243
	(!CK * !D * RN * SE)	0.00007	0.00008	0.00009
	(!CK * !D * RN * SE)	-0.00010	-0.00010	-0.00009
	(!CK * !D * RN * SE)	0.00289	0.00304	0.00362
	(!CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00015
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00000	0.00000	0.00001
	(!CK * !D * RN * !SE)	0.00022	0.00023	0.00023
	(!CK * !D * !RN * SE)	0.00113	0.00129	0.00188
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SE)	0.00180	0.00196	0.00254
	(!CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00000	0.00000	0.00001
	(!CK * !D * !RN * !SE)	0.00022	0.00022	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

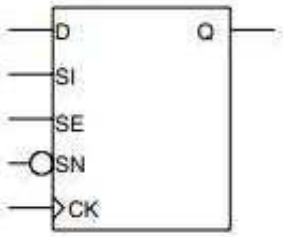
SDFFRX3H7L	**(CK * D * RN * SE)**	0.00157	0.00174	0.00234
	(CK * D * RN * SE)	-0.00010	-0.00010	-0.00009
	(CK * D * RN * SE)	0.00008	0.00009	0.00009
	(CK * D * RN * SE)	0.00067	0.00084	0.00144
	(CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00020	-0.00020	-0.00019
	(CK * D * !RN * SE)	0.00157	0.00173	0.00233
	(CK * D * !RN * SE)	-0.00009	-0.00009	-0.00008
	(CK * D * !RN * SE)	0.00009	0.00009	0.00009
	(CK * D * !RN * SE)	0.00067	0.00083	0.00143
	(CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00020	-0.00020	-0.00019
	(CK * !D * RN * SE)	0.00157	0.00173	0.00233
	(CK * !D * RN * SE)	-0.00010	-0.00009	-0.00009
	(CK * !D * RN * SE)	0.00009	0.00009	0.00009
	(CK * !D * RN * SE)	0.00067	0.00083	0.00144
	(CK * !D * RN * !SE)	0.00017	0.00018	0.00019
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00018
	(CK * !D * !RN * SE)	0.00157	0.00173	0.00233
	(CK * !D * !RN * SE)	-0.00009	-0.00009	-0.00008
	(CK * !D * !RN * SE)	0.00008	0.00009	0.00009
	(CK * !D * !RN * SE)	0.00067	0.00083	0.00143
	(CK * !D * !RN * !SE)	0.00017	0.00018	0.00018
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00000	-0.00000	-0.00000
	(CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00018
	(!CK * D * RN * SE)	0.00324	0.00343	0.00408
	(!CK * D * RN * SE)	-0.00009	-0.00007	-0.00007
	(!CK * D * RN * SE)	0.00008	0.00010	0.00011
	(!CK * D * RN * SE)	0.00205	0.00224	0.00290
	(!CK * D * RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00020	-0.00020	-0.00019
	(!CK * D * !RN * SE)	0.00217	0.00234	0.00300
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * D * !RN * SE)	-0.00002	-0.00001	-0.00001
	(!CK * D * !RN * SE)	0.00151	0.00169	0.00235
	(!CK * D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * D * !RN * !SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00020	-0.00020	-0.00019
	(!CK * !D * RN * SE)	0.00324	0.00342	0.00408
	(!CK * !D * RN * SE)	-0.00008	-0.00007	-0.00007
	(!CK * !D * RN * SE)	0.00009	0.00010	0.00011
	(!CK * !D * RN * SE)	0.00205	0.00223	0.00290
	(!CK * !D * RN * !SE)	0.00017	0.00018	0.00019
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00001	-0.00000	-0.00000
	(!CK * !D * RN * !SE)	-0.00020	-0.00019	-0.00018
	(!CK * !D * !RN * SE)	0.00216	0.00234	0.00299
	(!CK * !D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	-0.00000
	(!CK * !D * !RN * SE)	0.00151	0.00168	0.00234
	(!CK * !D * !RN * !SE)	0.00017	0.00018	0.00018
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00001	-0.00000	-0.00000
	(!CK * !D * !RN * !SE)	-0.00020	-0.00019	-0.00018

SDFFSQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	SE	SI	SN	Q
R	0	0	x	1	0
R	x	1	0	1	0
R	x	1	1	1	1
R	1	0	x	1	1
x	x	x	x	0	1
x	x	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSQX1H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX1H7L	0.00087	0.00070	0.00170	0.00075	0.00076	0.06153

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX1H7L	0.00000	6.99120	9.78411

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7L	CK->Q (RR)	(D * SE * SN)	0.08459	0.22430	0.55267
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.08466	0.22431	0.55268
	CK->Q (RR)	(!SE * !SI * SN)	0.08467	0.22431	0.55268
	CK->Q (RR)	(!D * SI * SN)	0.08459	0.22430	0.55269
	SN->Q (FR)	(CK * D * SE * SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * D * SE * !SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * D * !SE * SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * D * !SE * !SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * !D * SE * SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * !D * SE * !SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * !D * !SE * SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.05704	0.20823	0.57413
	SN->Q (FR)	(!CK * D * SE * SI)	0.05260	0.19783	0.55785
	SN->Q (FR)	(!CK * D * SE * !SI)	0.05353	0.19943	0.56092
	SN->Q (FR)	(!CK * D * !SE * SI)	0.05260	0.19783	0.55785
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.05260	0.19783	0.55785
	SN->Q (FR)	(!CK * !D * SE * SI)	0.05260	0.19783	0.55785
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.05353	0.19943	0.56092
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.05353	0.19943	0.56092
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.05353	0.19943	0.56092

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7L	CK->Q (RF)	(D * SE * SN)	0.08996	0.21204	0.45310
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.08997	0.21204	0.45310
	CK->Q (RF)	(!SE * !SI * SN)	0.08997	0.21204	0.45309
	CK->Q (RF)	(!D * SI * SN)	0.08997	0.21204	0.45317

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	**hold**	**CK (R)**	-0.04924	-0.01520	0.01608
	setup	**CK (R)**	0.01027	0.04816	0.09163

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	**hold**	**CK (R)**	-0.16584	-0.07939	-0.03815
	setup	**CK (R)**	0.06722	0.11742	0.21211

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	**hold**	**CK (R)**	-0.04434	-0.00987	0.01992
	setup	**CK (R)**	0.09483	0.11836	0.14416

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	**hold**	**CK (R)**	-0.12703	-0.04794	-0.00049
	setup	**CK (R)**	0.05460	0.10432	0.18701

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	hold	CK (R)	-0.05218	-0.01837	0.01404
	setup	CK (R)	0.01200	0.05092	0.09257

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	hold	CK (R)	-0.20132	-0.10190	-0.05764
	setup	CK (R)	0.08507	0.14121	0.24830

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX1H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7L	recovery	CK (R)	0.02524	0.04751	0.07071
	removal	CK (R)	0.05539	0.08351	0.13049

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00300	0.00333	0.00443
	CK	**(D * SE * SN)**	0.00000	0.00000	0.00005
	CK	**(D * SE * SN)**	-0.00002	-0.00001	0.00001
	CK	**(D * SE * SN)**	0.00366	0.00400	0.00508
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00303	0.00334	0.00443
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00000	0.00000	0.00004
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00002	-0.00001	0.00001
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00366	0.00399	0.00500
	CK	**(!SE * !SI * SN)**	0.00303	0.00334	0.00443
	CK	**(!SE * !SI * SN)**	-0.00001	0.00000	0.00004
	CK	**(!SE * !SI * SN)**	-0.00003	-0.00001	0.00001
	CK	**(!SE * !SI * SN)**	0.00366	0.00399	0.00500
	CK	**(!D * SI * SN)**	0.00301	0.00333	0.00443
	CK	**(!D * SI * SN)**	0.00000	0.00000	0.00004
	CK	**(!D * SI * SN)**	-0.00002	-0.00001	0.00001
	CK	**(!D * SI * SN)**	0.00366	0.00399	0.00499
	SN	**(CK * D * SE * SI)**	0.00377	0.00417	0.00536
	SN	**(CK * D * SE * SI)**	-0.00008	-0.00003	0.00003
	SN	**(CK * D * SE * SI)**	0.00003	0.00003	0.00006
	SN	**(CK * D * SE * SI)**	0.00321	0.00359	0.00474
	SN	**(CK * D * SE * !SI)**	0.00378	0.00417	0.00536
	SN	**(CK * D * SE * !SI)**	-0.00007	-0.00002	0.00002
	SN	**(CK * D * SE * !SI)**	0.00002	0.00003	0.00006
	SN	**(CK * D * SE * !SI)**	0.00322	0.00360	0.00474
	SN	**(CK * D * !SE * SI)**	0.00378	0.00417	0.00536
	SN	**(CK * D * !SE * SI)**	-0.00008	-0.00003	0.00002
	SN	**(CK * D * !SE * SI)**	0.00002	0.00003	0.00006
	SN	**(CK * D * !SE * SI)**	0.00321	0.00359	0.00474
	SN	**(CK * D * !SE * !SI)**	0.00378	0.00417	0.00536
	SN	**(CK * D * !SE * !SI)**	-0.00008	-0.00003	0.00002
	SN	**(CK * D * !SE * !SI)**	0.00002	0.00003	0.00006
	SN	**(CK * D * !SE * !SI)**	0.00321	0.00360	0.00474
	SN	**(CK * !D * SE * SI)**	0.00377	0.00417	0.00536
	SN	**(CK * !D * SE * SI)**	-0.00008	-0.00003	0.00003
	SN	**(CK * !D * SE * SI)**	0.00003	0.00003	0.00006
	SN	**(CK * !D * SE * SI)**	0.00321	0.00359	0.00474
	SN	**(CK * !D * SE * !SI)**	0.00377	0.00417	0.00536
	SN	**(CK * !D * SE * !SI)**	-0.00005	-0.00002	0.00002
SDFFSQX1H7L	**SN**	**(CK * !D * SE * !SI)**	0.00002	0.00003	0.00006
	SN	**(CK * !D * SE * !SI)**	0.00322	0.00360	0.00474
	SN	**(CK * !D * !SE * SI)**	0.00378	0.00417	0.00537
	SN	**(CK * !D * !SE * SI)**	-0.00007	-0.00003	0.00002
	SN	**(CK * !D * !SE * SI)**	0.00002	0.00003	0.00007
	SN	**(CK * !D * !SE * SI)**	0.00321	0.00360	0.00475
	SN	**(CK * !D * !SE * !SI)**	0.00377	0.00417	0.00536
	SN	**(CK * !D * !SE * !SI)**	-0.00007	-0.00002	0.00002
	SN	**(CK * !D * !SE * !SI)**	-0.00003	0.00003	0.00007
	SN	**(CK * !D * !SE * !SI)**	0.00320	0.00360	0.00474
	SN	**(!CK * D * SE * SI)**	0.00252	0.00291	0.00407
	SN	**(!CK * D * SE * SI)**	-0.00005	0.00001	0.00003
	SN	**(!CK * D * SE * SI)**	-0.00007	-0.00003	-0.00002
	SN	**(!CK * D * SE * SI)**	0.00205	0.00243	0.00358
	SN	**(!CK * D * SE * !SI)**	0.00252	0.00294	0.00411
	SN	**(!CK * D * SE * !SI)**	-0.00003	0.00002	0.00007
	SN	**(!CK * D * SE * !SI)**	-0.00004	-0.00003	0.00001
	SN	**(!CK * D * SE * !SI)**	0.00205	0.00247	0.00364
	SN	**(!CK * D * !SE * SI)**	0.00254	0.00292	0.00407
	SN	**(!CK * D * !SE * SI)**	-0.00005	0.00001	0.00003
	SN	**(!CK * D * !SE * SI)**	-0.00007	-0.00003	-0.00002
	SN	**(!CK * D * !SE * SI)**	0.00205	0.00243	0.00358
	SN	**(!CK * D * !SE * !SI)**	0.00254	0.00292	0.00407
	SN	**(!CK * D * !SE * !SI)**	-0.00005	0.00001	0.00003
	SN	**(!CK * D * !SE * !SI)**	-0.00007	-0.00003	-0.00002
	SN	**(!CK * D * !SE * !SI)**	0.00205	0.00243	0.00358
	SN	**(!CK * !D * SE * SI)**	0.00252	0.00291	0.00407
	SN	**(!CK * !D * SE * SI)**	-0.00005	0.00001	0.00003
	SN	**(!CK * !D * SE * SI)**	-0.00007	-0.00003	-0.00002
	SN	**(!CK * !D * SE * SI)**	0.00205	0.00243	0.00358
	SN	**(!CK * !D * SE * !SI)**	0.00252	0.00294	0.00411
	SN	**(!CK * !D * SE * !SI)**	-0.00003	0.00002	0.00007
	SN	**(!CK * !D * SE * !SI)**	-0.00004	-0.00003	0.00001
	SN	**(!CK * !D * SE * !SI)**	0.00205	0.00247	0.00364
	SN	**(!CK * !D * !SE * SI)**	0.00252	0.00294	0.00411
	SN	**(!CK * !D * !SE * SI)**	-0.00004	0.00002	0.00006
	SN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00003	0.00001
	SN	**(!CK * !D * !SE * SI)**	0.00210	0.00248	0.00364
	SN	**(!CK * !D * !SE * !SI)**	0.00252	0.00294	0.00411
	SN	**(!CK * !D * !SE * !SI)**	-0.00004	0.00002	0.00006
	SN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00003	0.00001
	SN	**(!CK * !D * !SE * !SI)**	0.00210	0.00247	0.00364

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX1H7L	CK	(D * SE * SN)	0.00325	0.00355	0.00467
	CK	(D * SE * SN)	-0.00001	-0.00000	0.00000
	CK	(D * SE * SN)	0.00000	0.00002	0.00003
	CK	(D * SE * SN)	0.00380	0.00411	0.00523
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00325	0.00355	0.00467
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00002	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00380	0.00411	0.00523
	CK	(!SE * !SI * SN)	0.00325	0.00357	0.00467
	CK	(!SE * !SI * SN)	-0.00001	-0.00000	0.00001
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00003
	CK	(!SE * !SI * SN)	0.00343	0.00410	0.00523
	CK	(!D * SI * SN)	0.00325	0.00356	0.00468
	CK	(!D * SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!D * SI * SN)	0.00001	0.00002	0.00003
	CK	(!D * SI * SN)	0.00380	0.00411	0.00523

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(D * SE * SI * SN)**	0.00137	0.00161	0.00249
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * SN)	0.00196	0.00220	0.00309
	(D * SE * SI * !SN)	0.00132	0.00156	0.00245
	(D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00193	0.00217	0.00306
	(D * SE * !SI * SN)	0.00147	0.00172	0.00262
	(D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00209	0.00234	0.00324
	(D * SE * !SI * !SN)	0.00260	0.00285	0.00376
	(D * SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(D * SE * !SI * !SN)	0.00003	0.00004	0.00004
	(D * SE * !SI * !SN)	0.00315	0.00340	0.00430
	(D * !SE * SI * SN)	0.00137	0.00161	0.00249
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * SI * SN)	0.00196	0.00220	0.00309
	(D * !SE * SI * !SN)	0.00132	0.00156	0.00245
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00193	0.00217	0.00306
	(D * !SE * !SI * SN)	0.00137	0.00161	0.00249
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00196	0.00220	0.00309
	(D * !SE * !SI * !SN)	0.00132	0.00156	0.00245
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00193	0.00217	0.00306
	(!D * SE * SI * SN)	0.00137	0.00161	0.00249
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * SN)	0.00196	0.00220	0.00309
	(!D * SE * SI * !SN)	0.00132	0.00156	0.00245
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00193	0.00217	0.00306
	(!D * SE * !SI * SN)	0.00147	0.00172	0.00262
	(!D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00208	0.00234	0.00323
	(!D * SE * !SI * !SN)	0.00260	0.00285	0.00376
	(!D * SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * SE * !SI * !SN)	0.00003	0.00004	0.00004
	(!D * SE * !SI * !SN)	0.00315	0.00340	0.00430
	(!D * !SE * SI * SN)	0.00147	0.00172	0.00262
	(!D * !SE * SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00209	0.00234	0.00324
	(!D * !SE * SI * !SN)	0.00260	0.00285	0.00376
	(!D * !SE * SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * SI * !SN)	0.00003	0.00004	0.00005
	(!D * !SE * SI * !SN)	0.00315	0.00340	0.00431
	(!D * !SE * !SI * SN)	0.00147	0.00172	0.00262
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00208	0.00234	0.00323
	(!D * !SE * !SI * !SN)	0.00260	0.00285	0.00376
	(!D * !SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * !SI * !SN)	0.00003	0.00003	0.00004
	(!D * !SE * !SI * !SN)	0.00316	0.00340	0.00430

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(D * SE * SI * SN)**	0.00370	0.00397	0.00494
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00005	0.00005	0.00006
	(D * SE * SI * SN)	0.00301	0.00329	0.00426
	(D * SE * SI * !SN)	0.00232	0.00260	0.00359
	(D * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00171	0.00199	0.00298
	(D * SE * !SI * SN)	0.00325	0.00359	0.00476
	(D * SE * !SI * SN)	0.00003	0.00003	0.00004
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00271	0.00305	0.00422
	(D * SE * !SI * !SN)	0.00243	0.00276	0.00393
	(D * SE * !SI * !SN)	0.00004	0.00005	0.00005
	(D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00193	0.00227	0.00344
	(D * !SE * SI * SN)	0.00370	0.00397	0.00494
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00004	0.00005	0.00006
	(D * !SE * SI * SN)	0.00301	0.00329	0.00426
	(D * !SE * SI * !SN)	0.00232	0.00260	0.00359
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * SI * !SN)	0.00171	0.00199	0.00298
	(D * !SE * !SI * SN)	0.00370	0.00397	0.00494
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00004	0.00005	0.00006
	(D * !SE * !SI * SN)	0.00301	0.00329	0.00426
	(D * !SE * !SI * !SN)	0.00232	0.00260	0.00359
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00171	0.00199	0.00298
	(!D * SE * SI * SN)	0.00370	0.00397	0.00494
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00004	0.00005	0.00006
	(!D * SE * SI * SN)	0.00302	0.00329	0.00426
	(!D * SE * SI * !SN)	0.00232	0.00260	0.00359
	(!D * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	0.00171	0.00199	0.00298
	(!D * SE * !SI * SN)	0.00325	0.00359	0.00476
	(!D * SE * !SI * SN)	0.00002	0.00004	0.00005
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00271	0.00305	0.00422
	(!D * SE * !SI * !SN)	0.00243	0.00276	0.00393
	(!D * SE * !SI * !SN)	0.00005	0.00005	0.00006
	(!D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00193	0.00227	0.00344
	(!D * !SE * SI * SN)	0.00325	0.00358	0.00476
	(!D * !SE * SI * SN)	0.00003	0.00004	0.00004
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00271	0.00305	0.00422
	(!D * !SE * SI * !SN)	0.00243	0.00276	0.00393
	(!D * !SE * SI * !SN)	0.00005	0.00005	0.00006
	(!D * !SE * SI * !SN)	-0.00005	-0.00004	-0.00003
	(!D * !SE * SI * !SN)	0.00193	0.00227	0.00344
	(!D * !SE * !SI * SN)	0.00325	0.00358	0.00476
	(!D * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00271	0.00305	0.00422
	(!D * !SE * !SI * !SN)	0.00243	0.00276	0.00393
	(!D * !SE * !SI * !SN)	0.00005	0.00005	0.00006
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * !SI * !SN)	0.00193	0.00227	0.00344

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(CK * SE * SI * SN)**	-0.00010	-0.00010	-0.00008
	(CK * SE * SI * SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * SN)	0.00024	0.00025	0.00025
	(CK * SE * SI * !SN)	-0.00010	-0.00010	-0.00008
	(CK * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00024	0.00025	0.00025
	(CK * SE * !SI * SN)	-0.00010	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * SN)	0.00025	0.00025	0.00025
	(CK * SE * !SI * !SN)	-0.00010	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(CK * !SE * SI * SN)	0.00020	0.00035	0.00090
	(CK * !SE * SI * SN)	0.00006	0.00007	0.00008
	(CK * !SE * SI * SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * SI * SN)	0.00105	0.00120	0.00176
	(CK * !SE * SI * !SN)	0.00021	0.00035	0.00090
	(CK * !SE * SI * !SN)	0.00007	0.00007	0.00008
	(CK * !SE * SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * SI * !SN)	0.00107	0.00121	0.00176
	(CK * !SE * !SI * SN)	0.00020	0.00035	0.00090
	(CK * !SE * !SI * SN)	0.00007	0.00007	0.00007
	(CK * !SE * !SI * SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * !SI * SN)	0.00106	0.00121	0.00176
	(CK * !SE * !SI * !SN)	0.00021	0.00036	0.00090
	(CK * !SE * !SI * !SN)	0.00007	0.00007	0.00008
	(CK * !SE * !SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * !SI * !SN)	0.00106	0.00121	0.00176
	(!CK * SE * SI * SN)	-0.00010	-0.00010	-0.00008
	(!CK * SE * SI * SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00024	0.00025	0.00025
	(!CK * SE * SI * !SN)	-0.00010	-0.00010	-0.00008
	(!CK * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00024	0.00025	0.00025
	(!CK * SE * !SI * SN)	-0.00010	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * SN)	0.00025	0.00025	0.00025
	(!CK * SE * !SI * !SN)	-0.00010	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(!CK * !SE * SI * SN)	0.00173	0.00189	0.00247
	(!CK * !SE * SI * SN)	0.00004	0.00004	0.00004
	(!CK * !SE * SI * SN)	-0.00004	-0.00003	-0.00002
	(!CK * !SE * SI * SN)	0.00252	0.00268	0.00325
	(!CK * !SE * SI * !SN)	0.00177	0.00193	0.00251
	(!CK * !SE * SI * !SN)	0.00004	0.00004	0.00005
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00256	0.00272	0.00329
	(!CK * !SE * !SI * SN)	0.00174	0.00189	0.00247
	(!CK * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(!CK * !SE * !SI * SN)	-0.00004	-0.00003	-0.00002
	(!CK * !SE * !SI * SN)	0.00252	0.00268	0.00325
	(!CK * !SE * !SI * !SN)	0.00177	0.00193	0.00250
	(!CK * !SE * !SI * !SN)	0.00002	0.00003	0.00004
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00255	0.00270	0.00328

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	(CK * SE * SI * SN)	0.00012	0.00012	0.00012
	(CK * SE * SI * SN)	0.00000	0.00000	0.00000
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * SI * !SN)	0.00012	0.00012	0.00012
	(CK * SE * SI * !SN)	0.00000	0.00000	0.00000
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * !SI * SN)	0.00011	0.00012	0.00013
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * !SI * !SN)	0.00011	0.00012	0.00013
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * !SN)	-0.00023	-0.00023	-0.00022
	(CK * !SE * SI * SN)	0.00122	0.00139	0.00200
	(CK * !SE * SI * SN)	-0.00008	-0.00007	-0.00006
	(CK * !SE * SI * SN)	0.00007	0.00008	0.00008
	(CK * !SE * SI * SN)	0.00036	0.00053	0.00114
	(CK * !SE * SI * !SN)	0.00122	0.00139	0.00200
	(CK * !SE * SI * !SN)	-0.00008	-0.00007	-0.00007
	(CK * !SE * SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * SI * !SN)	0.00036	0.00053	0.00114
	(CK * !SE * !SI * SN)	0.00122	0.00139	0.00200
	(CK * !SE * !SI * SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * !SI * SN)	0.00008	0.00008	0.00008
	(CK * !SE * !SI * SN)	0.00036	0.00052	0.00113
	(CK * !SE * !SI * !SN)	0.00122	0.00139	0.00200
	(CK * !SE * !SI * !SN)	-0.00008	-0.00007	-0.00007
	(CK * !SE * !SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * !SI * !SN)	0.00036	0.00053	0.00114
	(!CK * SE * SI * SN)	0.00012	0.00012	0.00012
	(!CK * SE * SI * SN)	0.00000	0.00000	0.00000
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * SI * !SN)	0.00012	0.00012	0.00012
	(!CK * SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * !SI * SN)	0.00011	0.00012	0.00013
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * !SI * !SN)	0.00011	0.00012	0.00013
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * !SN)	-0.00023	-0.00023	-0.00022
	(!CK * !SE * SI * SN)	0.00225	0.00243	0.00308
	(!CK * !SE * SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !SE * SI * SN)	0.00002	0.00003	0.00004
	(!CK * !SE * SI * SN)	0.00147	0.00165	0.00229
	(!CK * !SE * SI * !SN)	0.00150	0.00168	0.00232
	(!CK * !SE * SI * !SN)	-0.00002	-0.00001	-0.00000
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00080	0.00097	0.00161
	(!CK * !SE * !SI * SN)	0.00226	0.00243	0.00308
	(!CK * !SE * !SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !SE * !SI * SN)	0.00002	0.00003	0.00004
	(!CK * !SE * !SI * SN)	0.00147	0.00165	0.00229
	(!CK * !SE * !SI * !SN)	0.00150	0.00168	0.00232
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00080	0.00097	0.00161

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(CK * D * SI * SN)**	-0.00010	0.00019	0.00117
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00001	-0.00000
	(CK * D * SI * SN)	0.00096	0.00124	0.00222
	(CK * D * SI * !SN)	-0.00010	0.00019	0.00117
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00001	-0.00000
	(CK * D * SI * !SN)	0.00096	0.00124	0.00223
	(CK * D * !SI * SN)	0.00109	0.00138	0.00238
	(CK * D * !SI * SN)	-0.00004	-0.00003	-0.00002
	(CK * D * !SI * SN)	0.00004	0.00004	0.00005
	(CK * D * !SI * SN)	0.00176	0.00205	0.00303
	(CK * D * !SI * !SN)	0.00109	0.00138	0.00238
	(CK * D * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * !SN)	0.00002	0.00003	0.00003
	(CK * D * !SI * !SN)	0.00177	0.00206	0.00304
	(CK * !D * SI * SN)	-0.00008	0.00044	0.00220
	(CK * !D * SI * SN)	0.00006	0.00006	0.00006
	(CK * !D * SI * SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SI * SN)	0.00137	0.00189	0.00367
	(CK * !D * SI * !SN)	-0.00007	0.00044	0.00221
	(CK * !D * SI * !SN)	0.00004	0.00006	0.00007
	(CK * !D * SI * !SN)	-0.00007	-0.00006	-0.00005
	(CK * !D * SI * !SN)	0.00139	0.00190	0.00367
	(CK * !D * !SI * SN)	-0.00008	0.00021	0.00120
	(CK * !D * !SI * SN)	0.00000	0.00001	0.00002
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * SN)	0.00100	0.00129	0.00228
	(CK * !D * !SI * !SN)	-0.00008	0.00021	0.00120
	(CK * !D * !SI * !SN)	0.00000	0.00001	0.00002
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * !SN)	0.00100	0.00129	0.00228
	(!CK * D * SI * SN)	-0.00010	0.00019	0.00117
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00096	0.00125	0.00223
	(!CK * D * SI * !SN)	-0.00010	0.00019	0.00117
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00096	0.00125	0.00223
	(!CK * D * !SI * SN)	0.00213	0.00242	0.00343
	(!CK * D * !SI * SN)	-0.00002	-0.00001	-0.00000
	(!CK * D * !SI * SN)	-0.00001	-0.00000	0.00001
	(!CK * D * !SI * SN)	0.00288	0.00316	0.00415
	(!CK * D * !SI * !SN)	0.00138	0.00166	0.00267
	(!CK * D * !SI * !SN)	0.00002	0.00003	0.00005
	(!CK * D * !SI * !SN)	-0.00002	-0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00221	0.00249	0.00348
	(!CK * !D * SI * SN)	0.00145	0.00198	0.00379
	(!CK * !D * SI * SN)	0.00002	0.00003	0.00004
	(!CK * !D * SI * SN)	-0.00004	-0.00003	-0.00001
	(!CK * !D * SI * SN)	0.00284	0.00337	0.00518
	(!CK * !D * SI * !SN)	0.00150	0.00202	0.00382
	(!CK * !D * SI * !SN)	0.00004	0.00004	0.00005
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00292	0.00343	0.00523
	(!CK * !D * !SI * SN)	-0.00008	0.00021	0.00120
	(!CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00100	0.00129	0.00228
	(!CK * !D * !SI * !SN)	-0.00008	0.00022	0.00120
	(!CK * !D * !SI * !SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * !SN)	0.00100	0.00129	0.00228

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(CK * D * SI * SN)**	0.00094	0.00127	0.00235
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00003
	(CK * D * SI * SN)	-0.00011	0.00021	0.00129
	(CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00003
	(CK * D * SI * !SN)	-0.00011	0.00021	0.00129
	(CK * D * !SI * SN)	0.00127	0.00162	0.00275
	(CK * D * !SI * SN)	0.00002	0.00003	0.00004
	(CK * D * !SI * SN)	-0.00005	-0.00004	-0.00004
	(CK * D * !SI * SN)	0.00060	0.00095	0.00211
	(CK * D * !SI * !SN)	0.00128	0.00162	0.00275
	(CK * D * !SI * !SN)	0.00003	0.00004	0.00005
	(CK * D * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(CK * D * !SI * !SN)	0.00060	0.00095	0.00211
	(CK * !D * SI * SN)	0.00172	0.00230	0.00423
	(CK * !D * SI * SN)	-0.00006	-0.00006	-0.00005
	(CK * !D * SI * SN)	0.00007	0.00007	0.00008
	(CK * !D * SI * SN)	0.00025	0.00084	0.00276
	(CK * !D * SI * !SN)	0.00172	0.00230	0.00423
	(CK * !D * SI * !SN)	-0.00006	-0.00006	-0.00004
	(CK * !D * SI * !SN)	0.00007	0.00007	0.00007
	(CK * !D * SI * !SN)	0.00027	0.00084	0.00277
	(CK * !D * !SI * SN)	0.00090	0.00123	0.00231
	(CK * !D * !SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00004
	(CK * !D * !SI * SN)	-0.00018	0.00014	0.00123
	(CK * !D * !SI * !SN)	0.00090	0.00123	0.00231
	(CK * !D * !SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00018	0.00015	0.00123
	(!CK * D * SI * SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * SN)	0.00001	0.00002	0.00003
	(!CK * D * SI * SN)	-0.00011	0.00021	0.00129
	(!CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(!CK * D * SI * !SN)	-0.00011	0.00021	0.00129
	(!CK * D * !SI * SN)	0.00281	0.00316	0.00428
	(!CK * D * !SI * SN)	0.00001	0.00001	0.00002
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00002
	(!CK * D * !SI * SN)	0.00207	0.00241	0.00357
	(!CK * D * !SI * !SN)	0.00282	0.00315	0.00425
	(!CK * D * !SI * !SN)	0.00002	0.00003	0.00005
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00002
	(!CK * D * !SI * !SN)	0.00214	0.00247	0.00360
	(!CK * !D * SI * SN)	0.00277	0.00335	0.00533
	(!CK * !D * SI * SN)	-0.00004	-0.00003	-0.00002
	(!CK * !D * SI * SN)	0.00002	0.00003	0.00004
	(!CK * !D * SI * SN)	0.00136	0.00196	0.00394
	(!CK * !D * SI * !SN)	0.00199	0.00259	0.00456
	(!CK * !D * SI * !SN)	-0.00000	0.00001	0.00003
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00070	0.00129	0.00326
	(!CK * !D * !SI * SN)	0.00090	0.00123	0.00231
	(!CK * !D * !SI * SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00018	0.00015	0.00123
	(!CK * !D * !SI * !SN)	0.00090	0.00122	0.00231
	(!CK * !D * !SI * !SN)	-0.00001	-0.00001	0.00001
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00018	0.00015	0.00123

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(CK * D * SE * SN)**	0.00003	0.00014	0.00056
	(CK * D * SE * SN)	0.00006	0.00006	0.00006
	(CK * D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * SN)	0.00087	0.00098	0.00140
	(CK * D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * D * SE * !SN)	0.00005	0.00006	0.00006
	(CK * D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * !SN)	0.00088	0.00098	0.00140
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * D * !SE * SN)	-0.00000	-0.00000	0.00000
	(CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * SN)	0.00026	0.00026	0.00027
	(CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00010
	(CK * D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00026	0.00026	0.00027
	(CK * !D * SE * SN)	0.00003	0.00014	0.00056
	(CK * !D * SE * SN)	0.00006	0.00006	0.00006
	(CK * !D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * SN)	0.00087	0.00098	0.00140
	(CK * !D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * !D * SE * !SN)	0.00006	0.00006	0.00007
	(CK * !D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * !SN)	0.00088	0.00099	0.00140
	(CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	0.00000	0.00000	0.00000
	(CK * !D * !SE * SN)	0.00021	0.00021	0.00021
	(CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	0.00000	0.00000	0.00000
	(CK * !D * !SE * !SN)	0.00021	0.00021	0.00021
	(!CK * D * SE * SN)	0.00157	0.00169	0.00213
	(!CK * D * SE * SN)	0.00002	0.00003	0.00003
	(!CK * D * SE * SN)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SN)	0.00233	0.00245	0.00290
	(!CK * D * SE * !SN)	0.00161	0.00173	0.00217
	(!CK * D * SE * !SN)	0.00002	0.00003	0.00003
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00238	0.00250	0.00294
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * SN)	-0.00000	-0.00000	0.00000
	(!CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00026	0.00026	0.00027
	(!CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * !SN)	-0.00000	-0.00000	0.00000
	(!CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00026	0.00026	0.00027
	(!CK * !D * SE * SN)	0.00157	0.00169	0.00213
	(!CK * !D * SE * SN)	0.00002	0.00003	0.00003
	(!CK * !D * SE * SN)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SN)	0.00233	0.00245	0.00290
	(!CK * !D * SE * !SN)	0.00161	0.00172	0.00216
	(!CK * !D * SE * !SN)	0.00001	0.00002	0.00003
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00237	0.00248	0.00292
	(!CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	0.00000	0.00000	0.00001
	(!CK * !D * !SE * SN)	0.00020	0.00021	0.00021
	(!CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SN)	0.00020	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(CK * D * SE * SN)	0.00133	0.00145	0.00190
	(CK * D * SE * SN)	-0.00006	-0.00006	-0.00006
	(CK * D * SE * SN)	0.00007	0.00007	0.00007
	(CK * D * SE * SN)	0.00049	0.00061	0.00107
	(CK * D * SE * !SN)	0.00133	0.00145	0.00191
	(CK * D * SE * !SN)	-0.00006	-0.00006	-0.00005
	(CK * D * SE * !SN)	0.00007	0.00007	0.00007
	(CK * D * SE * !SN)	0.00049	0.00062	0.00107
	(CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * SN)	0.00000	0.00000	0.00001
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * SN)	-0.00025	-0.00025	-0.00024
	(CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00000	0.00000	0.00001
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * !SN)	-0.00025	-0.00025	-0.00024
	(CK * !D * SE * SN)	0.00133	0.00145	0.00190
	(CK * !D * SE * SN)	-0.00006	-0.00006	-0.00006
	(CK * !D * SE * SN)	0.00007	0.00007	0.00007
	(CK * !D * SE * SN)	0.00049	0.00061	0.00107
	(CK * !D * SE * !SN)	0.00133	0.00145	0.00191
	(CK * !D * SE * !SN)	-0.00006	-0.00006	-0.00006
	(CK * !D * SE * !SN)	0.00007	0.00007	0.00007
	(CK * !D * SE * !SN)	0.00049	0.00062	0.00107
	(CK * !D * !SE * SN)	0.00018	0.00019	0.00020
	(CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00000	-0.00000	0.00000
	(CK * !D * !SE * SN)	-0.00019	-0.00018	-0.00017
	(CK * !D * !SE * !SN)	0.00018	0.00019	0.00020
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00000	-0.00000	0.00000
	(CK * !D * !SE * !SN)	-0.00019	-0.00018	-0.00017
SDFFSQX1H7L	**(!CK * D * SE * SN)**	0.00238	0.00251	0.00301
	(!CK * D * SE * SN)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SN)	0.00002	0.00003	0.00003
	(!CK * D * SE * SN)	0.00160	0.00174	0.00224
	(!CK * D * SE * !SN)	0.00161	0.00175	0.00224
	(!CK * D * SE * !SN)	-0.00001	0.00001	0.00001
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00094	0.00107	0.00156
	(!CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * SN)	-0.00025	-0.00025	-0.00024
	(!CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * !SN)	-0.00025	-0.00025	-0.00024
	(!CK * !D * SE * SN)	0.00238	0.00251	0.00301
	(!CK * !D * SE * SN)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SN)	0.00002	0.00003	0.00003
	(!CK * !D * SE * SN)	0.00160	0.00174	0.00224
	(!CK * !D * SE * !SN)	0.00161	0.00175	0.00224
	(!CK * !D * SE * !SN)	-0.00001	0.00001	0.00001
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00094	0.00107	0.00156
	(!CK * !D * !SE * SN)	0.00018	0.00019	0.00019
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00000	0.00000	0.00001
	(!CK * !D * !SE * SN)	-0.00019	-0.00018	-0.00018
	(!CK * !D * !SE * !SN)	0.00018	0.00019	0.00019
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00000	-0.00000	0.00001
	(!CK * !D * !SE * !SN)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7L	**(CK * D * SE * SI)**	0.00003	0.00034	0.00135
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * SI)	0.00061	0.00092	0.00193
	(CK * D * SE * !SI)	0.00003	0.00034	0.00135
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * !SI)	0.00061	0.00092	0.00194
	(CK * D * !SE * SI)	0.00003	0.00034	0.00135
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00061	0.00092	0.00193
	(CK * D * !SE * !SI)	0.00003	0.00034	0.00135
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00061	0.00092	0.00194
	(CK * !D * SE * SI)	0.00003	0.00034	0.00135
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * SI)	0.00061	0.00092	0.00193
	(CK * !D * SE * !SI)	0.00003	0.00034	0.00135
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * !SI)	0.00061	0.00092	0.00194
	(CK * !D * !SE * SI)	0.00003	0.00034	0.00136
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * SI)	0.00061	0.00092	0.00194
	(CK * !D * !SE * !SI)	0.00003	0.00034	0.00135
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * !SI)	0.00061	0.00092	0.00194
	(!CK * D * SE * SI)	0.00003	0.00034	0.00136
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00062	0.00092	0.00194
	(!CK * D * SE * !SI)	0.00079	0.00111	0.00212
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * D * SE * !SI)	0.00129	0.00159	0.00261
	(!CK * D * !SE * SI)	0.00003	0.00034	0.00136
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00062	0.00092	0.00194
	(!CK * D * !SE * !SI)	0.00003	0.00034	0.00136
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00062	0.00092	0.00194
	(!CK * !D * SE * SI)	0.00003	0.00034	0.00136
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00062	0.00092	0.00194
	(!CK * !D * SE * !SI)	0.00079	0.00110	0.00212
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !D * SE * !SI)	0.00128	0.00159	0.00261
	(!CK * !D * !SE * SI)	0.00080	0.00111	0.00212
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * SI)	0.00129	0.00159	0.00261
	(!CK * !D * !SE * !SI)	0.00080	0.00111	0.00212
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * !SI)	0.00129	0.00159	0.00261

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

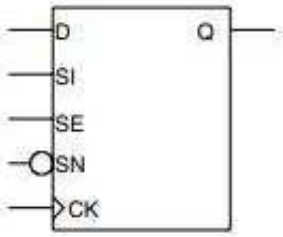
SDFFSQX1H7L	**(CK * D * SE * SI)**	0.00068	0.00101	0.00212
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00009	0.00043	0.00154
	(CK * D * SE * !SI)	0.00068	0.00102	0.00212
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00009	0.00043	0.00154
	(CK * D * !SE * SI)	0.00068	0.00101	0.00212
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	0.00009	0.00043	0.00154
	(CK * D * !SE * !SI)	0.00068	0.00101	0.00212
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00009	0.00043	0.00154
	(CK * !D * SE * SI)	0.00068	0.00101	0.00212
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00009	0.00043	0.00154
	(CK * !D * SE * !SI)	0.00068	0.00101	0.00212
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00009	0.00043	0.00154
	(CK * !D * !SE * SI)	0.00068	0.00102	0.00212
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00009	0.00043	0.00154
	(CK * !D * !SE * !SI)	0.00068	0.00102	0.00212
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00009	0.00043	0.00154
	(!CK * D * SE * SI)	0.00067	0.00101	0.00212
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00008	0.00043	0.00153
	(!CK * D * SE * !SI)	0.00068	0.00102	0.00213
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00010	0.00044	0.00154
	(!CK * D * !SE * SI)	0.00067	0.00101	0.00212
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00008	0.00043	0.00153
	(!CK * D * !SE * !SI)	0.00067	0.00101	0.00212
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00008	0.00043	0.00154
	(!CK * !D * SE * SI)	0.00067	0.00101	0.00212
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00008	0.00043	0.00153
	(!CK * !D * SE * !SI)	0.00068	0.00102	0.00213
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00010	0.00044	0.00154
	(!CK * !D * !SE * SI)	0.00068	0.00102	0.00213
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00010	0.00044	0.00155
	(!CK * !D * !SE * !SI)	0.00068	0.00102	0.00213
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00010	0.00044	0.00154

SDFFSQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	SE	SI	SN	Q
R	0	0	x	1	0
R	x	1	0	1	0
R	x	1	1	1	1
R	1	0	x	1	1
x	x	x	x	0	1
x	x	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSQX2H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX2H7L	0.00087	0.00072	0.00176	0.00074	0.00077	0.08226

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX2H7L	0.00000	7.19446	10.04970

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7L	CK->Q (RR)	(D * SE * SN)	0.08286	0.22241	0.54734
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.08293	0.22243	0.54749
	CK->Q (RR)	(!SE * !SI * SN)	0.08292	0.22243	0.54749
	CK->Q (RR)	(!D * SI * SN)	0.08286	0.22241	0.54734
	SN->Q (FR)	(CK * D * SE * SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(CK * D * SE * !SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(CK * D * !SE * SI)	0.05708	0.20901	0.57328
	SN->Q (FR)	(CK * D * !SE * !SI)	0.05708	0.20901	0.57328
	SN->Q (FR)	(CK * !D * SE * SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(CK * !D * SE * !SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(CK * !D * !SE * SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.05708	0.20901	0.57327
	SN->Q (FR)	(!CK * D * SE * SI)	0.05275	0.19841	0.55802
	SN->Q (FR)	(!CK * D * SE * !SI)	0.05364	0.20001	0.56123
	SN->Q (FR)	(!CK * D * !SE * SI)	0.05275	0.19842	0.55828
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.05275	0.19842	0.55838
	SN->Q (FR)	(!CK * !D * SE * SI)	0.05275	0.19841	0.55802
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.05364	0.20001	0.56122
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.05364	0.20001	0.56124
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.05364	0.20001	0.56123

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7L	CK->Q (RF)	(D * SE * SN)	0.08932	0.21118	0.44749
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.08932	0.21118	0.44747
	CK->Q (RF)	(!SE * !SI * SN)	0.08934	0.21118	0.44748
	CK->Q (RF)	(!D * SI * SN)	0.08934	0.21118	0.44749

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	**hold**	**CK (R)**	-0.04950	-0.01497	0.01358
	setup	**CK (R)**	0.00915	0.04655	0.08705

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	**hold**	**CK (R)**	-0.17203	-0.08285	-0.04273
	setup	**CK (R)**	0.07244	0.12277	0.21608

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	**hold**	**CK (R)**	-0.04243	-0.01104	0.01839
	setup	**CK (R)**	0.10102	0.12622	0.15170

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	**hold**	**CK (R)**	-0.12477	-0.04723	0.00158
	setup	**CK (R)**	0.06245	0.10970	0.18883

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	hold	CK (R)	-0.05214	-0.01892	0.01272
	setup	CK (R)	0.01350	0.05080	0.09148

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	hold	CK (R)	-0.21203	-0.10834	-0.06485
	setup	CK (R)	0.09536	0.14880	0.25753

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX2H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7L	recovery	CK (R)	0.03006	0.05040	0.07013
	removal	CK (R)	0.05152	0.08153	0.12592

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSQX2H7L	CK	(D * SE * SN)	0.00310	0.00342	0.00447
	CK	(D * SE * SN)	-0.00002	0.00000	0.00003
	CK	(D * SE * SN)	-0.00002	-0.00001	0.00000
	CK	(D * SE * SN)	0.00376	0.00406	0.00514
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00308	0.00343	0.00448
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00002	0.00000	0.00005
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00002	-0.00001	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00376	0.00406	0.00506
	CK	(!SE * !SI * SN)	0.00310	0.00343	0.00448
	CK	(!SE * !SI * SN)	-0.00002	0.00000	0.00003
	CK	(!SE * !SI * SN)	-0.00001	-0.00001	0.00000
	CK	(!SE * !SI * SN)	0.00376	0.00406	0.00506
	CK	(!D * SI * SN)	0.00310	0.00343	0.00447
	CK	(!D * SI * SN)	-0.00001	0.00000	0.00003
	CK	(!D * SI * SN)	-0.00001	-0.00001	0.00000
	CK	(!D * SI * SN)	0.00376	0.00406	0.00506
	SN	(CK * D * SE * SI)	0.00393	0.00432	0.00550
	SN	(CK * D * SE * SI)	-0.00007	-0.00003	0.00003
	SN	(CK * D * SE * SI)	-0.00000	0.00003	0.00008
	SN	(CK * D * SE * SI)	0.00338	0.00374	0.00491
	SN	(CK * D * SE * !SI)	0.00395	0.00433	0.00550
	SN	(CK * D * SE * !SI)	-0.00008	-0.00003	0.00004
	SN	(CK * D * SE * !SI)	-0.00002	0.00003	0.00008
	SN	(CK * D * SE * !SI)	0.00336	0.00374	0.00491
	SN	(CK * D * !SE * SI)	0.00396	0.00433	0.00550
	SN	(CK * D * !SE * SI)	-0.00007	-0.00003	0.00003
	SN	(CK * D * !SE * SI)	-0.00001	0.00003	0.00008
	SN	(CK * D * !SE * SI)	0.00337	0.00374	0.00491
	SN	(CK * D * !SE * !SI)	0.00396	0.00433	0.00550
	SN	(CK * D * !SE * !SI)	-0.00007	-0.00003	0.00003
	SN	(CK * D * !SE * !SI)	-0.00001	0.00003	0.00008
	SN	(CK * D * !SE * !SI)	0.00338	0.00374	0.00491
	SN	(CK * !D * SE * SI)	0.00393	0.00432	0.00550
	SN	(CK * !D * SE * SI)	-0.00007	-0.00003	0.00003
	SN	(CK * !D * SE * SI)	-0.00000	0.00003	0.00008
	SN	(CK * !D * SE * SI)	0.00338	0.00374	0.00491
	SN	(CK * !D * SE * !SI)	0.00395	0.00433	0.00550
	SN	(CK * !D * SE * !SI)	-0.00008	-0.00003	0.00004
	SN	(CK * !D * SE * !SI)	-0.00000	0.00004	0.00009
	SN	(CK * !D * SE * !SI)	0.00335	0.00373	0.00491
	SN	(CK * !D * !SE * SI)	0.00396	0.00433	0.00550
	SN	(CK * !D * !SE * SI)	-0.00005	-0.00003	0.00004
	SN	(CK * !D * !SE * SI)	-0.00000	0.00004	0.00011
	SN	(CK * !D * !SE * SI)	0.00338	0.00374	0.00491
	SN	(CK * !D * !SE * !SI)	0.00395	0.00433	0.00550
	SN	(CK * !D * !SE * !SI)	-0.00005	-0.00003	0.00004
	SN	(CK * !D * !SE * !SI)	-0.00000	0.00004	0.00010
	SN	(CK * !D * !SE * !SI)	0.00338	0.00374	0.00491
	SN	(!CK * D * SE * SI)	0.00263	0.00305	0.00422
	SN	(!CK * D * SE * SI)	-0.00006	0.00000	0.00024
	SN	(!CK * D * SE * SI)	-0.00003	-0.00002	-0.00001
	SN	(!CK * D * SE * SI)	0.00217	0.00255	0.00370
	SN	(!CK * D * SE * !SI)	0.00271	0.00309	0.00427
	SN	(!CK * D * SE * !SI)	0.00001	0.00001	0.00001
	SN	(!CK * D * SE * !SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * D * SE * !SI)	0.00221	0.00259	0.00377
	SN	(!CK * D * !SE * SI)	0.00264	0.00305	0.00423
	SN	(!CK * D * !SE * SI)	-0.00000	0.00000	0.00004
	SN	(!CK * D * !SE * SI)	-0.00003	-0.00002	0.00000
	SN	(!CK * D * !SE * SI)	0.00218	0.00255	0.00370
	SN	(!CK * D * !SE * !SI)	0.00264	0.00305	0.00423
	SN	(!CK * D * !SE * !SI)	-0.00000	0.00000	0.00005
	SN	(!CK * D * !SE * !SI)	-0.00003	-0.00002	0.00000
	SN	(!CK * D * !SE * !SI)	0.00218	0.00255	0.00370
	SN	(!CK * !D * SE * SI)	0.00268	0.00306	0.00422
	SN	(!CK * !D * SE * SI)	-0.00040	-0.00001	0.00002
	SN	(!CK * !D * SE * SI)	-0.00003	-0.00002	-0.00001
	SN	(!CK * !D * SE * SI)	0.00211	0.00254	0.00370
	SN	(!CK * !D * SE * !SI)	0.00270	0.00308	0.00427
	SN	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	SN	(!CK * !D * SE * !SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * !D * SE * !SI)	0.00221	0.00259	0.00377
	SN	(!CK * !D * !SE * SI)	0.00271	0.00309	0.00427
	SN	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	SN	(!CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	SN	(!CK * !D * !SE * SI)	0.00221	0.00259	0.00377
	SN	(!CK * !D * !SE * !SI)	0.00271	0.00309	0.00427
	SN	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	SN	(!CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	SN	(!CK * !D * !SE * !SI)	0.00221	0.00259	0.00377

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX2H7L	CK	(D * SE * SN)	0.00335	0.00368	0.00489
	CK	(D * SE * SN)	-0.00000	0.00000	0.00002
	CK	(D * SE * SN)	0.00000	0.00001	0.00003
	CK	(D * SE * SN)	0.00392	0.00425	0.00546
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00335	0.00368	0.00489
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00000	0.00000	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00001	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00392	0.00425	0.00546
	CK	(!SE * !SI * SN)	0.00335	0.00368	0.00490
	CK	(!SE * !SI * SN)	-0.00000	0.00000	0.00002
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00001
	CK	(!SE * !SI * SN)	0.00392	0.00425	0.00546
	CK	(!D * SI * SN)	0.00335	0.00369	0.00489
	CK	(!D * SI * SN)	-0.00000	0.00000	0.00002
	CK	(!D * SI * SN)	0.00000	0.00001	0.00001
	CK	(!D * SI * SN)	0.00392	0.00426	0.00546

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(D * SE * SI * SN)**	0.00135	0.00159	0.00248
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * SN)	0.00193	0.00218	0.00307
	(D * SE * SI * !SN)	0.00130	0.00155	0.00244
	(D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00000	0.00001	0.00002
	(D * SE * SI * !SN)	0.00191	0.00215	0.00304
	(D * SE * !SI * SN)	0.00146	0.00170	0.00260
	(D * SE * !SI * SN)	-0.00001	-0.00000	-0.00000
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00205	0.00231	0.00321
	(D * SE * !SI * !SN)	0.00261	0.00286	0.00377
	(D * SE * !SI * !SN)	-0.00003	-0.00002	-0.00002
	(D * SE * !SI * !SN)	0.00002	0.00003	0.00004
	(D * SE * !SI * !SN)	0.00315	0.00341	0.00432
	(D * !SE * SI * SN)	0.00135	0.00159	0.00248
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * SN)	0.00193	0.00218	0.00307
	(D * !SE * SI * !SN)	0.00130	0.00155	0.00244
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00191	0.00215	0.00304
	(D * !SE * !SI * SN)	0.00135	0.00159	0.00248
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00193	0.00218	0.00307
	(D * !SE * !SI * !SN)	0.00130	0.00155	0.00244
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00191	0.00215	0.00304
	(!D * SE * SI * SN)	0.00135	0.00159	0.00248
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * SN)	0.00193	0.00218	0.00307
	(!D * SE * SI * !SN)	0.00130	0.00155	0.00244
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00000	0.00001	0.00002
	(!D * SE * SI * !SN)	0.00191	0.00215	0.00304
	(!D * SE * !SI * SN)	0.00146	0.00170	0.00260
	(!D * SE * !SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00205	0.00231	0.00321
	(!D * SE * !SI * !SN)	0.00261	0.00286	0.00377
	(!D * SE * !SI * !SN)	-0.00003	-0.00002	-0.00002
	(!D * SE * !SI * !SN)	0.00002	0.00003	0.00004
	(!D * SE * !SI * !SN)	0.00315	0.00341	0.00432
	(!D * !SE * SI * SN)	0.00146	0.00170	0.00260
	(!D * !SE * SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00205	0.00231	0.00322
	(!D * !SE * SI * !SN)	0.00262	0.00286	0.00377
	(!D * !SE * SI * !SN)	-0.00004	-0.00003	-0.00002
	(!D * !SE * SI * !SN)	0.00002	0.00003	0.00003
	(!D * !SE * SI * !SN)	0.00317	0.00341	0.00432
	(!D * !SE * !SI * SN)	0.00146	0.00170	0.00260
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00205	0.00231	0.00321
	(!D * !SE * !SI * !SN)	0.00261	0.00286	0.00377
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(!D * !SE * !SI * !SN)	0.00002	0.00003	0.00003
	(!D * !SE * !SI * !SN)	0.00317	0.00341	0.00432

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(D * SE * SI * SN)**	0.00366	0.00393	0.00491
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00003	0.00004	0.00005
	(D * SE * SI * SN)	0.00301	0.00327	0.00425
	(D * SE * SI * !SN)	0.00228	0.00257	0.00356
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00169	0.00196	0.00296
	(D * SE * !SI * SN)	0.00322	0.00355	0.00470
	(D * SE * !SI * SN)	0.00003	0.00004	0.00004
	(D * SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(D * SE * !SI * SN)	0.00268	0.00301	0.00416
	(D * SE * !SI * !SN)	0.00238	0.00271	0.00386
	(D * SE * !SI * !SN)	0.00004	0.00005	0.00005
	(D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(D * SE * !SI * !SN)	0.00188	0.00221	0.00336
	(D * !SE * SI * SN)	0.00366	0.00393	0.00491
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00003	0.00004	0.00005
	(D * !SE * SI * SN)	0.00301	0.00327	0.00425
	(D * !SE * SI * !SN)	0.00229	0.00257	0.00356
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * !SN)	0.00169	0.00197	0.00296
	(D * !SE * !SI * SN)	0.00366	0.00393	0.00491
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00003	0.00004	0.00005
	(D * !SE * !SI * SN)	0.00301	0.00327	0.00425
	(D * !SE * !SI * !SN)	0.00229	0.00257	0.00356
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00169	0.00197	0.00296
	(!D * SE * SI * SN)	0.00366	0.00393	0.00491
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00003	0.00004	0.00005
	(!D * SE * SI * SN)	0.00300	0.00327	0.00425
	(!D * SE * SI * !SN)	0.00228	0.00257	0.00356
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00169	0.00196	0.00296
	(!D * SE * !SI * SN)	0.00321	0.00355	0.00470
	(!D * SE * !SI * SN)	0.00003	0.00004	0.00004
	(!D * SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI * SN)	0.00268	0.00301	0.00416
	(!D * SE * !SI * !SN)	0.00238	0.00271	0.00385
	(!D * SE * !SI * !SN)	0.00004	0.00005	0.00005
	(!D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(!D * SE * !SI * !SN)	0.00188	0.00221	0.00336
	(!D * !SE * SI * SN)	0.00322	0.00355	0.00470
	(!D * !SE * SI * SN)	0.00003	0.00003	0.00004
	(!D * !SE * SI * SN)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI * SN)	0.00268	0.00300	0.00416
	(!D * !SE * SI * !SN)	0.00238	0.00271	0.00386
	(!D * !SE * SI * !SN)	0.00004	0.00005	0.00005
	(!D * !SE * SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * SI * !SN)	0.00189	0.00222	0.00336
	(!D * !SE * !SI * SN)	0.00322	0.00355	0.00470
	(!D * !SE * !SI * SN)	0.00003	0.00003	0.00004
	(!D * !SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00268	0.00300	0.00416
	(!D * !SE * !SI * !SN)	0.00238	0.00271	0.00386
	(!D * !SE * !SI * !SN)	0.00004	0.00005	0.00005
	(!D * !SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * !SI * !SN)	0.00189	0.00221	0.00336

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * SE * SI * SN)**	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	0.00024	0.00025	0.00026
	(CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00024	0.00025	0.00026
	(CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * SN)	0.00025	0.00025	0.00025
	(CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(CK * !SE * SI * SN)	0.00020	0.00036	0.00094
	(CK * !SE * SI * SN)	0.00007	0.00008	0.00008
	(CK * !SE * SI * SN)	-0.00008	-0.00008	-0.00008
	(CK * !SE * SI * SN)	0.00111	0.00126	0.00184
	(CK * !SE * SI * !SN)	0.00021	0.00036	0.00094
	(CK * !SE * SI * !SN)	0.00008	0.00008	0.00009
	(CK * !SE * SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * SI * !SN)	0.00111	0.00127	0.00184
	(CK * !SE * !SI * SN)	0.00020	0.00036	0.00094
	(CK * !SE * !SI * SN)	0.00007	0.00008	0.00008
	(CK * !SE * !SI * SN)	-0.00008	-0.00008	-0.00008
	(CK * !SE * !SI * SN)	0.00111	0.00126	0.00184
	(CK * !SE * !SI * !SN)	0.00021	0.00036	0.00094
	(CK * !SE * !SI * !SN)	0.00008	0.00008	0.00009
	(CK * !SE * !SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * !SI * !SN)	0.00111	0.00127	0.00184
	(!CK * SE * SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00024	0.00025	0.00026
	(!CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00024	0.00025	0.00026
	(!CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * SN)	0.00025	0.00025	0.00025
	(!CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(!CK * !SE * SI * SN)	0.00173	0.00189	0.00249
	(!CK * !SE * SI * SN)	0.00004	0.00005	0.00006
	(!CK * !SE * SI * SN)	-0.00006	-0.00005	-0.00004
	(!CK * !SE * SI * SN)	0.00257	0.00274	0.00334
	(!CK * !SE * SI * !SN)	0.00178	0.00194	0.00254
	(!CK * !SE * SI * !SN)	0.00004	0.00005	0.00006
	(!CK * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00263	0.00279	0.00339
	(!CK * !SE * !SI * SN)	0.00173	0.00190	0.00249
	(!CK * !SE * !SI * SN)	0.00004	0.00005	0.00006
	(!CK * !SE * !SI * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !SE * !SI * SN)	0.00258	0.00274	0.00334
	(!CK * !SE * !SI * !SN)	0.00178	0.00194	0.00253
	(!CK * !SE * !SI * !SN)	0.00003	0.00004	0.00004
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00000	-0.00000
	(!CK * !SE * !SI * !SN)	0.00260	0.00277	0.00337

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	(CK * SE * SI * SN)	0.00012	0.00013	0.00013
	(CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * SI * !SN)	0.00012	0.00013	0.00013
	(CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * !SI * SN)	0.00012	0.00013	0.00014
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * !SI * !SN)	0.00012	0.00013	0.00014
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * !SN)	-0.00023	-0.00022	-0.00022
	(CK * !SE * SI * SN)	0.00125	0.00143	0.00207
	(CK * !SE * SI * SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * SI * SN)	0.00008	0.00008	0.00009
	(CK * !SE * SI * SN)	0.00034	0.00052	0.00116
	(CK * !SE * SI * !SN)	0.00125	0.00143	0.00207
	(CK * !SE * SI * !SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * SI * !SN)	0.00035	0.00052	0.00116
	(CK * !SE * !SI * SN)	0.00125	0.00143	0.00207
	(CK * !SE * !SI * SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * !SI * SN)	0.00008	0.00008	0.00008
	(CK * !SE * !SI * SN)	0.00034	0.00052	0.00116
	(CK * !SE * !SI * !SN)	0.00125	0.00143	0.00207
	(CK * !SE * !SI * !SN)	-0.00009	-0.00008	-0.00008
	(CK * !SE * !SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * !SI * !SN)	0.00035	0.00052	0.00116
	(!CK * SE * SI * SN)	0.00013	0.00013	0.00013
	(!CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * SI * !SN)	0.00013	0.00013	0.00013
	(!CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * !SI * SN)	0.00012	0.00013	0.00014
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * SN)	-0.00023	-0.00022	-0.00022
	(!CK * SE * !SI * !SN)	0.00012	0.00013	0.00014
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * !SN)	-0.00023	-0.00022	-0.00022
	(!CK * !SE * SI * SN)	0.00229	0.00248	0.00315
	(!CK * !SE * SI * SN)	-0.00006	-0.00005	-0.00004
	(!CK * !SE * SI * SN)	0.00004	0.00005	0.00006
	(!CK * !SE * SI * SN)	0.00144	0.00162	0.00230
	(!CK * !SE * SI * !SN)	0.00151	0.00169	0.00236
	(!CK * !SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00075	0.00093	0.00159
	(!CK * !SE * !SI * SN)	0.00229	0.00248	0.00315
	(!CK * !SE * !SI * SN)	-0.00006	-0.00005	-0.00004
	(!CK * !SE * !SI * SN)	0.00004	0.00005	0.00005
	(!CK * !SE * !SI * SN)	0.00144	0.00162	0.00230
	(!CK * !SE * !SI * !SN)	0.00151	0.00169	0.00235
	(!CK * !SE * !SI * !SN)	-0.00002	-0.00001	-0.00000
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !SE * !SI * !SN)	0.00074	0.00093	0.00159

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * D * SI * SN)**	-0.00010	0.00019	0.00117
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00097	0.00126	0.00224
	(CK * D * SI * !SN)	-0.00010	0.00019	0.00117
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * !SN)	0.00097	0.00127	0.00224
	(CK * D * !SI * SN)	0.00110	0.00139	0.00239
	(CK * D * !SI * SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * SN)	0.00003	0.00004	0.00004
	(CK * D * !SI * SN)	0.00177	0.00205	0.00303
	(CK * D * !SI * !SN)	0.00110	0.00139	0.00239
	(CK * D * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * !SN)	0.00002	0.00003	0.00005
	(CK * D * !SI * !SN)	0.00177	0.00205	0.00304
	(CK * !D * SI * SN)	-0.00009	0.00043	0.00222
	(CK * !D * SI * SN)	0.00006	0.00006	0.00006
	(CK * !D * SI * SN)	-0.00008	-0.00007	-0.00007
	(CK * !D * SI * SN)	0.00141	0.00194	0.00374
	(CK * !D * SI * !SN)	-0.00009	0.00043	0.00222
	(CK * !D * SI * !SN)	0.00006	0.00007	0.00008
	(CK * !D * SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SI * !SN)	0.00142	0.00194	0.00373
	(CK * !D * !SI * SN)	-0.00010	0.00019	0.00118
	(CK * !D * !SI * SN)	0.00001	0.00001	0.00002
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * SN)	0.00100	0.00130	0.00229
	(CK * !D * !SI * !SN)	-0.00010	0.00019	0.00118
	(CK * !D * !SI * !SN)	0.00001	0.00001	0.00002
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * !SN)	0.00100	0.00130	0.00229
	(!CK * D * SI * SN)	-0.00010	0.00019	0.00117
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00098	0.00127	0.00224
	(!CK * D * SI * !SN)	-0.00010	0.00019	0.00117
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00098	0.00127	0.00224
	(!CK * D * !SI * SN)	0.00215	0.00243	0.00343
	(!CK * D * !SI * SN)	-0.00002	-0.00001	0.00000
	(!CK * D * !SI * SN)	-0.00000	0.00000	0.00001
	(!CK * D * !SI * SN)	0.00288	0.00316	0.00414
	(!CK * D * !SI * !SN)	0.00136	0.00164	0.00265
	(!CK * D * !SI * !SN)	0.00002	0.00003	0.00004
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00218	0.00246	0.00344
	(!CK * !D * SI * SN)	0.00144	0.00197	0.00380
	(!CK * !D * SI * SN)	0.00003	0.00004	0.00005
	(!CK * !D * SI * SN)	-0.00004	-0.00003	-0.00002
	(!CK * !D * SI * SN)	0.00288	0.00342	0.00525
	(!CK * !D * SI * !SN)	0.00148	0.00201	0.00383
	(!CK * !D * SI * !SN)	0.00002	0.00004	0.00004
	(!CK * !D * SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00296	0.00349	0.00531
	(!CK * !D * !SI * SN)	-0.00010	0.00019	0.00118
	(!CK * !D * !SI * SN)	0.00001	0.00002	0.00003
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00100	0.00130	0.00229
	(!CK * !D * !SI * !SN)	-0.00010	0.00019	0.00118
	(!CK * !D * !SI * !SN)	0.00001	0.00002	0.00003
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * !SN)	0.00100	0.00130	0.00229

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * D * SI * SN)**	0.00094	0.00126	0.00235
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00002
	(CK * D * SI * SN)	-0.00014	0.00019	0.00127
	(CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(CK * D * SI * !SN)	-0.00014	0.00019	0.00127
	(CK * D * !SI * SN)	0.00130	0.00164	0.00277
	(CK * D * !SI * SN)	0.00003	0.00004	0.00006
	(CK * D * !SI * SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * SN)	0.00061	0.00097	0.00214
	(CK * D * !SI * !SN)	0.00128	0.00164	0.00277
	(CK * D * !SI * !SN)	0.00003	0.00004	0.00005
	(CK * D * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(CK * D * !SI * !SN)	0.00061	0.00097	0.00214
	(CK * !D * SI * SN)	0.00174	0.00232	0.00428
	(CK * !D * SI * SN)	-0.00006	-0.00006	-0.00006
	(CK * !D * SI * SN)	0.00007	0.00008	0.00008
	(CK * !D * SI * SN)	0.00022	0.00081	0.00277
	(CK * !D * SI * !SN)	0.00174	0.00232	0.00428
	(CK * !D * SI * !SN)	-0.00007	-0.00007	-0.00006
	(CK * !D * SI * !SN)	0.00007	0.00007	0.00007
	(CK * !D * SI * !SN)	0.00023	0.00081	0.00277
	(CK * !D * !SI * SN)	0.00091	0.00124	0.00233
	(CK * !D * !SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00019	0.00013	0.00122
	(CK * !D * !SI * !SN)	0.00091	0.00124	0.00233
	(CK * !D * !SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00019	0.00014	0.00122
	(!CK * D * SI * SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * SN)	0.00001	0.00002	0.00002
	(!CK * D * SI * SN)	-0.00014	0.00019	0.00127
	(!CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(!CK * D * SI * !SN)	-0.00014	0.00019	0.00127
	(!CK * D * !SI * SN)	0.00283	0.00317	0.00430
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00002
	(!CK * D * !SI * SN)	-0.00001	-0.00000	0.00000
	(!CK * D * !SI * SN)	0.00208	0.00244	0.00361
	(!CK * D * !SI * !SN)	0.00283	0.00316	0.00426
	(!CK * D * !SI * !SN)	0.00001	0.00003	0.00004
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00218	0.00250	0.00364
	(!CK * !D * SI * SN)	0.00277	0.00337	0.00537
	(!CK * !D * SI * SN)	-0.00005	-0.00004	-0.00002
	(!CK * !D * SI * SN)	0.00002	0.00004	0.00004
	(!CK * !D * SI * SN)	0.00132	0.00192	0.00392
	(!CK * !D * SI * !SN)	0.00198	0.00258	0.00458
	(!CK * !D * SI * !SN)	-0.00000	0.00001	0.00003
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !D * SI * !SN)	0.00063	0.00122	0.00321
	(!CK * !D * !SI * SN)	0.00092	0.00124	0.00233
	(!CK * !D * !SI * SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00019	0.00013	0.00122
	(!CK * !D * !SI * !SN)	0.00092	0.00124	0.00233
	(!CK * !D * !SI * !SN)	-0.00002	-0.00001	0.00001
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00019	0.00014	0.00122

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * D * SE * SN)**	0.00004	0.00014	0.00056
	(CK * D * SE * SN)	0.00005	0.00006	0.00007
	(CK * D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * SN)	0.00089	0.00100	0.00142
	(CK * D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * D * SE * !SN)	0.00006	0.00006	0.00007
	(CK * D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * !SN)	0.00090	0.00101	0.00142
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SE * SN)	-0.00000	-0.00000	-0.00000
	(CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * SN)	0.00026	0.00026	0.00027
	(CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00026	0.00026	0.00027
	(CK * !D * SE * SN)	0.00004	0.00014	0.00056
	(CK * !D * SE * SN)	0.00005	0.00006	0.00007
	(CK * !D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * SN)	0.00089	0.00100	0.00141
	(CK * !D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * !D * SE * !SN)	0.00006	0.00006	0.00007
	(CK * !D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * !SN)	0.00090	0.00101	0.00142
	(CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	0.00000	0.00000	0.00000
	(CK * !D * !SE * SN)	0.00021	0.00021	0.00021
	(CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	-0.00000	0.00000	0.00000
	(CK * !D * !SE * !SN)	0.00021	0.00021	0.00021
	(!CK * D * SE * SN)	0.00156	0.00168	0.00212
	(!CK * D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * D * SE * SN)	-0.00004	-0.00004	-0.00003
	(!CK * D * SE * SN)	0.00237	0.00248	0.00292
	(!CK * D * SE * !SN)	0.00162	0.00173	0.00217
	(!CK * D * SE * !SN)	0.00003	0.00003	0.00004
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00242	0.00253	0.00297
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(!CK * D * !SE * SN)	-0.00000	-0.00000	-0.00000
	(!CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00026	0.00026	0.00027
	(!CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00026	0.00026	0.00027
	(!CK * !D * SE * SN)	0.00157	0.00168	0.00212
	(!CK * !D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SN)	-0.00005	-0.00004	-0.00003
	(!CK * !D * SE * SN)	0.00237	0.00248	0.00292
	(!CK * !D * SE * !SN)	0.00161	0.00172	0.00216
	(!CK * !D * SE * !SN)	0.00002	0.00002	0.00003
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00240	0.00251	0.00295
	(!CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00016
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SN)	0.00021	0.00021	0.00021
	(!CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00016
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SN)	0.00020	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * D * SE * SN)**	0.00134	0.00146	0.00191
	(CK * D * SE * SN)	-0.00006	-0.00006	-0.00005
	(CK * D * SE * SN)	0.00007	0.00007	0.00007
	(CK * D * SE * SN)	0.00048	0.00060	0.00106
	(CK * D * SE * !SN)	0.00134	0.00146	0.00191
	(CK * D * SE * !SN)	-0.00007	-0.00006	-0.00006
	(CK * D * SE * !SN)	0.00007	0.00007	0.00007
	(CK * D * SE * !SN)	0.00049	0.00061	0.00106
	(CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * SN)	0.00000	0.00000	0.00000
	(CK * D * !SE * SN)	-0.00001	-0.00000	0.00002
	(CK * D * !SE * SN)	-0.00026	-0.00025	-0.00024
	(CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00000	0.00000	0.00000
	(CK * D * !SE * !SN)	-0.00001	-0.00000	0.00002
	(CK * D * !SE * !SN)	-0.00026	-0.00025	-0.00024
	(CK * !D * SE * SN)	0.00134	0.00146	0.00191
	(CK * !D * SE * SN)	-0.00006	-0.00006	-0.00005
	(CK * !D * SE * SN)	0.00007	0.00007	0.00007
	(CK * !D * SE * SN)	0.00048	0.00060	0.00106
	(CK * !D * SE * !SN)	0.00134	0.00146	0.00191
	(CK * !D * SE * !SN)	-0.00007	-0.00006	-0.00006
	(CK * !D * SE * !SN)	0.00007	0.00007	0.00007
	(CK * !D * SE * !SN)	0.00048	0.00061	0.00106
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00000	-0.00000	0.00000
	(CK * !D * !SE * SN)	-0.00019	-0.00018	-0.00016
	(CK * !D * !SE * !SN)	0.00018	0.00019	0.00019
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00000	-0.00000	0.00001
	(CK * !D * !SE * !SN)	-0.00019	-0.00018	-0.00017
	(!CK * D * SE * SN)	0.00238	0.00252	0.00302
	(!CK * D * SE * SN)	-0.00004	-0.00003	-0.00003
	(!CK * D * SE * SN)	0.00003	0.00004	0.00004
	(!CK * D * SE * SN)	0.00158	0.00172	0.00222
	(!CK * D * SE * !SN)	0.00160	0.00173	0.00222
	(!CK * D * SE * !SN)	0.00000	0.00001	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00089	0.00102	0.00151
	(!CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * SN)	-0.00025	-0.00024	-0.00024
	(!CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * !SN)	-0.00025	-0.00024	-0.00024
	(!CK * !D * SE * SN)	0.00238	0.00252	0.00302
	(!CK * !D * SE * SN)	-0.00004	-0.00003	-0.00002
	(!CK * !D * SE * SN)	0.00003	0.00004	0.00005
	(!CK * !D * SE * SN)	0.00158	0.00172	0.00222
	(!CK * !D * SE * !SN)	0.00160	0.00173	0.00222
	(!CK * !D * SE * !SN)	0.00000	0.00001	0.00002
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00089	0.00102	0.00151
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00000	-0.00000	0.00000
	(!CK * !D * !SE * SN)	-0.00019	-0.00018	-0.00018
	(!CK * !D * !SE * !SN)	0.00018	0.00019	0.00019
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !SE * !SN)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7L	**(CK * D * SE * SI)**	0.00004	0.00035	0.00136
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * SI)	0.00063	0.00094	0.00195
	(CK * D * SE * !SI)	0.00004	0.00035	0.00136
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * !SI)	0.00063	0.00094	0.00195
	(CK * D * !SE * SI)	0.00004	0.00035	0.00136
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00063	0.00094	0.00195
	(CK * D * !SE * !SI)	0.00004	0.00035	0.00136
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00063	0.00094	0.00195
	(CK * !D * SE * SI)	0.00004	0.00035	0.00136
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * SI)	0.00063	0.00094	0.00195
	(CK * !D * SE * !SI)	0.00004	0.00035	0.00136
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * !SI)	0.00063	0.00094	0.00195
	(CK * !D * !SE * SI)	0.00004	0.00035	0.00136
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * SI)	0.00063	0.00094	0.00195
	(CK * !D * !SE * !SI)	0.00004	0.00035	0.00136
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * !SI)	0.00063	0.00094	0.00195
	(!CK * D * SE * SI)	0.00005	0.00035	0.00136
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00064	0.00094	0.00196
	(!CK * D * SE * !SI)	0.00083	0.00113	0.00214
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * D * SE * !SI)	0.00132	0.00163	0.00264
	(!CK * D * !SE * SI)	0.00005	0.00035	0.00137
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00064	0.00094	0.00196
	(!CK * D * !SE * !SI)	0.00005	0.00035	0.00137
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00064	0.00094	0.00196
	(!CK * !D * SE * SI)	0.00005	0.00035	0.00136
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00064	0.00094	0.00196
	(!CK * !D * SE * !SI)	0.00083	0.00113	0.00214
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * SE * !SI)	0.00132	0.00163	0.00264
	(!CK * !D * !SE * SI)	0.00083	0.00113	0.00214
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SI)	0.00132	0.00163	0.00264
	(!CK * !D * !SE * !SI)	0.00083	0.00113	0.00214
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SI)	0.00132	0.00163	0.00264

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

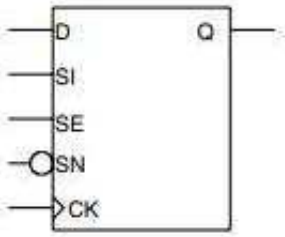
SDFFSQX2H7L	**(CK * D * SE * SI)**	0.00068	0.00102	0.00212
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00001	0.00002	0.00002
	(CK * D * SE * SI)	0.00009	0.00043	0.00153
	(CK * D * SE * !SI)	0.00069	0.00102	0.00212
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00001	0.00002	0.00002
	(CK * D * SE * !SI)	0.00009	0.00043	0.00153
	(CK * D * !SE * SI)	0.00068	0.00102	0.00212
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00001	0.00002	0.00002
	(CK * D * !SE * SI)	0.00009	0.00043	0.00153
	(CK * D * !SE * !SI)	0.00068	0.00102	0.00212
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00001	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00009	0.00043	0.00153
	(CK * !D * SE * SI)	0.00068	0.00102	0.00212
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00001	0.00002	0.00002
	(CK * !D * SE * SI)	0.00009	0.00043	0.00153
	(CK * !D * SE * !SI)	0.00069	0.00102	0.00212
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00001	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00009	0.00043	0.00153
	(CK * !D * !SE * SI)	0.00069	0.00102	0.00212
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00001	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00009	0.00043	0.00153
	(CK * !D * !SE * !SI)	0.00069	0.00102	0.00212
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00001	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00009	0.00043	0.00153
	(!CK * D * SE * SI)	0.00068	0.00101	0.00212
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00008	0.00042	0.00152
	(!CK * D * SE * !SI)	0.00069	0.00103	0.00213
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00010	0.00044	0.00154
	(!CK * D * !SE * SI)	0.00068	0.00102	0.00212
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00008	0.00042	0.00152
	(!CK * D * !SE * !SI)	0.00068	0.00102	0.00212
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00008	0.00042	0.00152
	(!CK * !D * SE * SI)	0.00068	0.00102	0.00212
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00008	0.00042	0.00152
	(!CK * !D * SE * !SI)	0.00069	0.00103	0.00213
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00010	0.00044	0.00154
	(!CK * !D * !SE * SI)	0.00069	0.00103	0.00213
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00010	0.00044	0.00154
	(!CK * !D * !SE * !SI)	0.00069	0.00103	0.00213
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00010	0.00044	0.00154

SDFFSQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	SE	SI	SN	Q
R	0	0	x	1	0
R	x	1	0	1	0
R	x	1	1	1	1
R	1	0	x	1	1
x	x	x	x	0	1
x	x	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSQX3H7L	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX3H7L	0.00087	0.00072	0.00174	0.00072	0.00079	0.12720

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX3H7L	0.00000	7.92520	11.23820

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7L	CK->Q (RR)	(D * SE * SN)	0.08305	0.22440	0.55039
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.08304	0.22441	0.55038
	CK->Q (RR)	(!SE * !SI * SN)	0.08304	0.22440	0.55038
	CK->Q (RR)	(!D * SI * SN)	0.08305	0.22439	0.55039
	SN->Q (FR)	(CK * D * SE * SI)	0.06172	0.21552	0.58129
	SN->Q (FR)	(CK * D * SE * !SI)	0.06172	0.21552	0.58131
	SN->Q (FR)	(CK * D * !SE * SI)	0.06172	0.21552	0.58129
	SN->Q (FR)	(CK * D * !SE * !SI)	0.06172	0.21552	0.58129
	SN->Q (FR)	(CK * !D * SE * SI)	0.06172	0.21552	0.58129
	SN->Q (FR)	(CK * !D * SE * !SI)	0.06172	0.21552	0.58131
	SN->Q (FR)	(CK * !D * !SE * SI)	0.06172	0.21552	0.58131
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.06172	0.21552	0.58131
	SN->Q (FR)	(!CK * D * SE * SI)	0.05627	0.20373	0.56493
	SN->Q (FR)	(!CK * D * SE * !SI)	0.05730	0.20537	0.56799
	SN->Q (FR)	(!CK * D * !SE * SI)	0.05627	0.20373	0.56513
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.05627	0.20373	0.56513
	SN->Q (FR)	(!CK * !D * SE * SI)	0.05627	0.20373	0.56492
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.05730	0.20537	0.56799
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.05730	0.20537	0.56795
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.05730	0.20537	0.56794

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7L	CK->Q (RF)	(D * SE * SN)	0.09864	0.22808	0.47174
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.09864	0.22808	0.47174
	CK->Q (RF)	(!SE * !SI * SN)	0.09863	0.22809	0.47177
	CK->Q (RF)	(!D * SI * SN)	0.09863	0.22809	0.47177

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	**hold**	**CK (R)**	-0.04478	-0.01178	0.01496
	setup	**CK (R)**	0.00900	0.04665	0.08810

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	**hold**	**CK (R)**	-0.16916	-0.08032	-0.04003
	setup	**CK (R)**	0.07107	0.12321	0.21407

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	**hold**	**CK (R)**	-0.03782	-0.00713	0.02054
	setup	**CK (R)**	0.10146	0.12704	0.15212

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	**hold**	**CK (R)**	-0.12207	-0.04443	0.00232
	setup	**CK (R)**	0.06300	0.11011	0.18824

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	hold	CK (R)	-0.04868	-0.01552	0.01497
	setup	CK (R)	0.01201	0.05074	0.09085

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	hold	CK (R)	-0.20805	-0.10553	-0.06225
	setup	CK (R)	0.09527	0.14925	0.25616

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX3H7L	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7L	recovery	CK (R)	0.02842	0.05211	0.07488
	removal	CK (R)	0.04539	0.07498	0.11944

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00355	0.00387	0.00490
	CK	**(D * SE * SN)**	-0.00003	-0.00001	0.00000
	CK	**(D * SE * SN)**	-0.00002	0.00000	0.00004
	CK	**(D * SE * SN)**	0.00416	0.00448	0.00552
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00349	0.00387	0.00494
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00003	-0.00001	0.00005
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00001	0.00000	0.00002
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00417	0.00448	0.00552
	CK	**(!SE * !SI * SN)**	0.00350	0.00387	0.00494
	CK	**(!SE * !SI * SN)**	-0.00004	-0.00001	0.00005
	CK	**(!SE * !SI * SN)**	-0.00001	-0.00000	0.00002
	CK	**(!SE * !SI * SN)**	0.00417	0.00448	0.00552
	CK	**(!D * SI * SN)**	0.00355	0.00387	0.00492
	CK	**(!D * SI * SN)**	-0.00003	-0.00001	0.00000
	CK	**(!D * SI * SN)**	-0.00001	0.00000	0.00004
	CK	**(!D * SI * SN)**	0.00416	0.00448	0.00552
	SN	**(CK * D * SE * SI)**	0.00438	0.00476	0.00604
	SN	**(CK * D * SE * SI)**	-0.00012	-0.00005	-0.00004
	SN	**(CK * D * SE * SI)**	-0.00001	0.00004	0.00006
	SN	**(CK * D * SE * SI)**	0.00374	0.00414	0.00543
	SN	**(CK * D * SE * !SI)**	0.00438	0.00476	0.00604
	SN	**(CK * D * SE * !SI)**	-0.00009	-0.00004	0.00000
	SN	**(CK * D * SE * !SI)**	0.00002	0.00004	0.00008
	SN	**(CK * D * SE * !SI)**	0.00375	0.00414	0.00543
	SN	**(CK * D * !SE * SI)**	0.00438	0.00475	0.00604
	SN	**(CK * D * !SE * SI)**	-0.00009	-0.00004	0.00001
	SN	**(CK * D * !SE * SI)**	0.00002	0.00004	0.00009
	SN	**(CK * D * !SE * SI)**	0.00374	0.00413	0.00543
	SN	**(CK * D * !SE * !SI)**	0.00438	0.00476	0.00604
	SN	**(CK * D * !SE * !SI)**	-0.00009	-0.00004	0.00001
	SN	**(CK * D * !SE * !SI)**	0.00002	0.00005	0.00009
	SN	**(CK * D * !SE * !SI)**	0.00375	0.00413	0.00543
	SN	**(CK * !D * SE * SI)**	0.00438	0.00476	0.00604
	SN	**(CK * !D * SE * SI)**	-0.00012	-0.00005	-0.00004
	SN	**(CK * !D * SE * SI)**	-0.00001	0.00004	0.00006
	SN	**(CK * !D * SE * SI)**	0.00374	0.00414	0.00543
	SN	**(CK * !D * SE * !SI)**	0.00438	0.00475	0.00604
	SN	**(CK * !D * SE * !SI)**	-0.00009	-0.00004	0.00000
SDFFSQX3H7L	**SN**	**(CK * !D * SE * !SI)**	0.00002	0.00004	0.00009
	SN	**(CK * !D * SE * !SI)**	0.00375	0.00414	0.00543
	SN	**(CK * !D * !SE * SI)**	0.00436	0.00476	0.00605
	SN	**(CK * !D * !SE * SI)**	-0.00009	-0.00004	-0.00000
	SN	**(CK * !D * !SE * SI)**	0.00002	0.00004	0.00008
	SN	**(CK * !D * !SE * SI)**	0.00375	0.00414	0.00543
	SN	**(CK * !D * !SE * !SI)**	0.00436	0.00476	0.00604
	SN	**(CK * !D * !SE * !SI)**	-0.00009	-0.00004	0.00000
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00004	0.00008
	SN	**(CK * !D * !SE * !SI)**	0.00375	0.00414	0.00543
	SN	**(!CK * D * SE * SI)**	0.00309	0.00348	0.00472
	SN	**(!CK * D * SE * SI)**	-0.00007	-0.00001	0.00004
	SN	**(!CK * D * SE * SI)**	-0.00001	-0.00001	-0.00001
	SN	**(!CK * D * SE * SI)**	0.00255	0.00294	0.00418
	SN	**(!CK * D * SE * !SI)**	0.00312	0.00352	0.00478
	SN	**(!CK * D * SE * !SI)**	-0.00001	-0.00000	0.00001
	SN	**(!CK * D * SE * !SI)**	-0.00008	-0.00001	0.00006
	SN	**(!CK * D * SE * !SI)**	0.00257	0.00299	0.00426
	SN	**(!CK * D * !SE * SI)**	0.00308	0.00348	0.00472
	SN	**(!CK * D * !SE * SI)**	-0.00007	-0.00001	0.00004
	SN	**(!CK * D * !SE * SI)**	-0.00001	-0.00001	-0.00000
	SN	**(!CK * D * !SE * SI)**	0.00256	0.00294	0.00418
	SN	**(!CK * D * !SE * !SI)**	0.00308	0.00348	0.00472
	SN	**(!CK * D * !SE * !SI)**	-0.00007	-0.00001	0.00004
	SN	**(!CK * D * !SE * !SI)**	-0.00001	-0.00001	-0.00000
	SN	**(!CK * D * !SE * !SI)**	0.00256	0.00294	0.00418
	SN	**(!CK * !D * SE * SI)**	0.00309	0.00348	0.00472
	SN	**(!CK * !D * SE * SI)**	-0.00007	-0.00001	0.00004
	SN	**(!CK * !D * SE * SI)**	-0.00001	-0.00001	-0.00000
	SN	**(!CK * !D * SE * SI)**	0.00255	0.00294	0.00418
	SN	**(!CK * !D * SE * !SI)**	0.00312	0.00352	0.00478
	SN	**(!CK * !D * SE * !SI)**	-0.00001	-0.00000	0.00001
	SN	**(!CK * !D * SE * !SI)**	-0.00008	-0.00001	0.00006
	SN	**(!CK * !D * SE * !SI)**	0.00257	0.00299	0.00426
	SN	**(!CK * !D * !SE * SI)**	0.00312	0.00352	0.00478
	SN	**(!CK * !D * !SE * SI)**	-0.00001	-0.00000	0.00001
	SN	**(!CK * !D * !SE * SI)**	-0.00009	-0.00001	0.00006
	SN	**(!CK * !D * !SE * SI)**	0.00257	0.00299	0.00426
	SN	**(!CK * !D * !SE * !SI)**	0.00312	0.00352	0.00478
	SN	**(!CK * !D * !SE * !SI)**	-0.00001	-0.00000	0.00001
	SN	**(!CK * !D * !SE * !SI)**	-0.00009	-0.00001	0.00006
	SN	**(!CK * !D * !SE * !SI)**	0.00257	0.00299	0.00426

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX3H7L	CK	(D * SE * SN)	0.00402	0.00451	0.00604
	CK	(D * SE * SN)	0.00000	0.00001	0.00004
	CK	(D * SE * SN)	-0.00002	0.00000	0.00002
	CK	(D * SE * SN)	0.00461	0.00510	0.00663
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00402	0.00451	0.00604
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00001	0.00004
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00001	0.00000	0.00001
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00461	0.00510	0.00663
	CK	(!SE * !SI * SN)	-0.00144	0.00438	0.00604
	CK	(!SE * !SI * SN)	0.00000	0.00021	0.00962
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00022
	CK	(!SE * !SI * SN)	0.00461	0.00515	0.00784
	CK	(!D * SI * SN)	-0.00055	0.00440	0.00604
	CK	(!D * SI * SN)	0.00000	0.00019	0.00892
	CK	(!D * SI * SN)	-0.00002	0.00001	0.00023
	CK	(!D * SI * SN)	0.00462	0.00516	0.00799

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(D * SE * SI * SN)**	0.00138	0.00162	0.00250
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00001	0.00000	0.00001
	(D * SE * SI * SN)	0.00196	0.00221	0.00310
	(D * SE * SI * !SN)	0.00134	0.00158	0.00246
	(D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00194	0.00218	0.00307
	(D * SE * !SI * SN)	0.00150	0.00175	0.00264
	(D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00212	0.00236	0.00326
	(D * SE * !SI * !SN)	0.00262	0.00287	0.00377
	(D * SE * !SI * !SN)	-0.00003	-0.00002	-0.00001
	(D * SE * !SI * !SN)	0.00002	0.00003	0.00003
	(D * SE * !SI * !SN)	0.00317	0.00343	0.00433
	(D * !SE * SI * SN)	0.00138	0.00162	0.00250
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * SI * SN)	0.00197	0.00222	0.00310
	(D * !SE * SI * !SN)	0.00134	0.00158	0.00246
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00194	0.00218	0.00307
	(D * !SE * !SI * SN)	0.00138	0.00162	0.00250
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00197	0.00221	0.00310
	(D * !SE * !SI * !SN)	0.00134	0.00158	0.00246
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00194	0.00218	0.00307
	(!D * SE * SI * SN)	0.00138	0.00162	0.00250
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00001	0.00000	0.00001
	(!D * SE * SI * SN)	0.00196	0.00221	0.00310
	(!D * SE * SI * !SN)	0.00134	0.00158	0.00246
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	0.00194	0.00218	0.00307
	(!D * SE * !SI * SN)	0.00150	0.00175	0.00264
	(!D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00212	0.00236	0.00326
	(!D * SE * !SI * !SN)	0.00262	0.00287	0.00377
	(!D * SE * !SI * !SN)	-0.00003	-0.00002	-0.00001
	(!D * SE * !SI * !SN)	0.00002	0.00003	0.00003
	(!D * SE * !SI * !SN)	0.00317	0.00342	0.00433
	(!D * !SE * SI * SN)	0.00150	0.00175	0.00264
	(!D * !SE * SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00212	0.00236	0.00326
	(!D * !SE * SI * !SN)	0.00262	0.00287	0.00377
	(!D * !SE * SI * !SN)	-0.00003	-0.00002	-0.00001
	(!D * !SE * SI * !SN)	0.00002	0.00003	0.00003
	(!D * !SE * SI * !SN)	0.00317	0.00342	0.00433
	(!D * !SE * !SI * SN)	0.00150	0.00175	0.00264
	(!D * !SE * !SI * SN)	-0.00001	0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00212	0.00236	0.00326
	(!D * !SE * !SI * !SN)	0.00262	0.00287	0.00377
	(!D * !SE * !SI * !SN)	-0.00003	-0.00002	-0.00001
	(!D * !SE * !SI * !SN)	0.00002	0.00003	0.00003
	(!D * !SE * !SI * !SN)	0.00317	0.00342	0.00433

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(D * SE * SI * SN)**	0.00366	0.00393	0.00490
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00002	0.00003	0.00004
	(D * SE * SI * SN)	0.00300	0.00327	0.00424
	(D * SE * SI * !SN)	0.00230	0.00259	0.00358
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00170	0.00198	0.00297
	(D * SE * !SI * SN)	0.00325	0.00358	0.00473
	(D * SE * !SI * SN)	0.00003	0.00003	0.00004
	(D * SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(D * SE * !SI * SN)	0.00271	0.00303	0.00418
	(D * SE * !SI * !SN)	0.00240	0.00273	0.00388
	(D * SE * !SI * !SN)	0.00004	0.00005	0.00006
	(D * SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(D * SE * !SI * !SN)	0.00192	0.00224	0.00338
	(D * !SE * SI * SN)	0.00366	0.00392	0.00490
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00002	0.00003	0.00004
	(D * !SE * SI * SN)	0.00300	0.00327	0.00425
	(D * !SE * SI * !SN)	0.00231	0.00259	0.00358
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * !SN)	0.00171	0.00198	0.00297
	(D * !SE * !SI * SN)	0.00366	0.00392	0.00490
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00002	0.00003	0.00004
	(D * !SE * !SI * SN)	0.00300	0.00327	0.00424
	(D * !SE * !SI * !SN)	0.00231	0.00259	0.00358
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00171	0.00198	0.00297
	(!D * SE * SI * SN)	0.00366	0.00393	0.00490
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00002	0.00003	0.00004
	(!D * SE * SI * SN)	0.00301	0.00327	0.00424
	(!D * SE * SI * !SN)	0.00230	0.00259	0.00358
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00171	0.00198	0.00297
	(!D * SE * !SI * SN)	0.00325	0.00358	0.00473
	(!D * SE * !SI * SN)	0.00002	0.00003	0.00004
	(!D * SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI * SN)	0.00271	0.00303	0.00418
	(!D * SE * !SI * !SN)	0.00240	0.00273	0.00388
	(!D * SE * !SI * !SN)	0.00004	0.00005	0.00006
	(!D * SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * SE * !SI * !SN)	0.00192	0.00224	0.00338
	(!D * !SE * SI * SN)	0.00326	0.00358	0.00473
	(!D * !SE * SI * SN)	0.00003	0.00003	0.00004
	(!D * !SE * SI * SN)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI * SN)	0.00270	0.00303	0.00418
	(!D * !SE * SI * !SN)	0.00240	0.00273	0.00388
	(!D * !SE * SI * !SN)	0.00004	0.00005	0.00006
	(!D * !SE * SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * SI * !SN)	0.00192	0.00224	0.00338
	(!D * !SE * !SI * SN)	0.00326	0.00358	0.00473
	(!D * !SE * !SI * SN)	0.00003	0.00003	0.00004
	(!D * !SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00270	0.00303	0.00418
	(!D * !SE * !SI * !SN)	0.00240	0.00273	0.00388
	(!D * !SE * !SI * !SN)	0.00004	0.00005	0.00006
	(!D * !SE * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!D * !SE * !SI * !SN)	0.00192	0.00224	0.00338

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * SE * SI * SN)**	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	0.00024	0.00025	0.00026
	(CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00024	0.00025	0.00026
	(CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * SN)	0.00024	0.00025	0.00025
	(CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(CK * !SE * SI * SN)	0.00021	0.00036	0.00095
	(CK * !SE * SI * SN)	0.00007	0.00007	0.00008
	(CK * !SE * SI * SN)	-0.00009	-0.00008	-0.00008
	(CK * !SE * SI * SN)	0.00110	0.00126	0.00183
	(CK * !SE * SI * !SN)	0.00022	0.00037	0.00095
	(CK * !SE * SI * !SN)	0.00008	0.00008	0.00009
	(CK * !SE * SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * SI * !SN)	0.00110	0.00126	0.00183
	(CK * !SE * !SI * SN)	0.00021	0.00036	0.00095
	(CK * !SE * !SI * SN)	0.00007	0.00007	0.00008
	(CK * !SE * !SI * SN)	-0.00009	-0.00008	-0.00008
	(CK * !SE * !SI * SN)	0.00110	0.00126	0.00183
	(CK * !SE * !SI * !SN)	0.00021	0.00037	0.00095
	(CK * !SE * !SI * !SN)	0.00008	0.00008	0.00009
	(CK * !SE * !SI * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !SE * !SI * !SN)	0.00111	0.00126	0.00184
	(!CK * SE * SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00024	0.00025	0.00026
	(!CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00024	0.00025	0.00026
	(!CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * SN)	0.00025	0.00025	0.00025
	(!CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * SE * !SI * !SN)	0.00025	0.00025	0.00025
	(!CK * !SE * SI * SN)	0.00173	0.00189	0.00249
	(!CK * !SE * SI * SN)	0.00004	0.00005	0.00006
	(!CK * !SE * SI * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !SE * SI * SN)	0.00257	0.00273	0.00333
	(!CK * !SE * SI * !SN)	0.00177	0.00193	0.00253
	(!CK * !SE * SI * !SN)	0.00005	0.00006	0.00006
	(!CK * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00263	0.00278	0.00337
	(!CK * !SE * !SI * SN)	0.00174	0.00189	0.00249
	(!CK * !SE * !SI * SN)	0.00004	0.00005	0.00006
	(!CK * !SE * !SI * SN)	-0.00005	-0.00005	-0.00005
	(!CK * !SE * !SI * SN)	0.00257	0.00273	0.00333
	(!CK * !SE * !SI * !SN)	0.00176	0.00193	0.00253
	(!CK * !SE * !SI * !SN)	0.00003	0.00004	0.00005
	(!CK * !SE * !SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00260	0.00276	0.00335

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * SE * SI * SN)**	0.00013	0.00013	0.00013
	(CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * SI * !SN)	0.00013	0.00013	0.00013
	(CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(CK * SE * !SI * SN)	0.00012	0.00013	0.00014
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * SN)	-0.00023	-0.00022	-0.00022
	(CK * SE * !SI * !SN)	0.00012	0.00013	0.00014
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(CK * SE * !SI * !SN)	-0.00023	-0.00022	-0.00022
	(CK * !SE * SI * SN)	0.00124	0.00142	0.00206
	(CK * !SE * SI * SN)	-0.00008	-0.00007	-0.00007
	(CK * !SE * SI * SN)	0.00008	0.00008	0.00009
	(CK * !SE * SI * SN)	0.00034	0.00052	0.00116
	(CK * !SE * SI * !SN)	0.00124	0.00142	0.00206
	(CK * !SE * SI * !SN)	-0.00008	-0.00008	-0.00007
	(CK * !SE * SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * SI * !SN)	0.00035	0.00052	0.00117
	(CK * !SE * !SI * SN)	0.00124	0.00141	0.00205
	(CK * !SE * !SI * SN)	-0.00008	-0.00007	-0.00007
	(CK * !SE * !SI * SN)	0.00008	0.00008	0.00009
	(CK * !SE * !SI * SN)	0.00034	0.00052	0.00116
	(CK * !SE * !SI * !SN)	0.00124	0.00142	0.00206
	(CK * !SE * !SI * !SN)	-0.00009	-0.00008	-0.00008
	(CK * !SE * !SI * !SN)	0.00007	0.00007	0.00007
	(CK * !SE * !SI * !SN)	0.00035	0.00052	0.00117
	(!CK * SE * SI * SN)	0.00013	0.00013	0.00013
	(!CK * SE * SI * SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * SI * !SN)	0.00013	0.00013	0.00013
	(!CK * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	-0.00023	-0.00023	-0.00022
	(!CK * SE * !SI * SN)	0.00012	0.00013	0.00014
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * SN)	-0.00023	-0.00022	-0.00022
	(!CK * SE * !SI * !SN)	0.00012	0.00013	0.00014
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * SE * !SI * !SN)	-0.00023	-0.00022	-0.00022
	(!CK * !SE * SI * SN)	0.00228	0.00247	0.00314
	(!CK * !SE * SI * SN)	-0.00006	-0.00005	-0.00004
	(!CK * !SE * SI * SN)	0.00004	0.00005	0.00005
	(!CK * !SE * SI * SN)	0.00144	0.00163	0.00230
	(!CK * !SE * SI * !SN)	0.00149	0.00168	0.00234
	(!CK * !SE * SI * !SN)	-0.00002	-0.00001	0.00000
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00075	0.00093	0.00160
	(!CK * !SE * !SI * SN)	0.00228	0.00247	0.00314
	(!CK * !SE * !SI * SN)	-0.00006	-0.00005	-0.00004
	(!CK * !SE * !SI * SN)	0.00005	0.00005	0.00006
	(!CK * !SE * !SI * SN)	0.00144	0.00162	0.00230
	(!CK * !SE * !SI * !SN)	0.00149	0.00167	0.00234
	(!CK * !SE * !SI * !SN)	-0.00002	-0.00001	0.00000
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00075	0.00093	0.00159

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SI * SN)**	-0.00010	0.00019	0.00117
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00096	0.00125	0.00223
	(CK * D * SI * !SN)	-0.00009	0.00019	0.00117
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00001	-0.00000
	(CK * D * SI * !SN)	0.00096	0.00125	0.00223
	(CK * D * !SI * SN)	0.00111	0.00139	0.00239
	(CK * D * !SI * SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * SN)	0.00003	0.00004	0.00005
	(CK * D * !SI * SN)	0.00177	0.00205	0.00304
	(CK * D * !SI * !SN)	0.00111	0.00139	0.00239
	(CK * D * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(CK * D * !SI * !SN)	0.00002	0.00003	0.00004
	(CK * D * !SI * !SN)	0.00178	0.00206	0.00304
	(CK * !D * SI * SN)	-0.00009	0.00043	0.00223
	(CK * !D * SI * SN)	0.00006	0.00006	0.00007
	(CK * !D * SI * SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SI * SN)	0.00140	0.00192	0.00372
	(CK * !D * SI * !SN)	-0.00008	0.00044	0.00223
	(CK * !D * SI * !SN)	0.00006	0.00006	0.00007
	(CK * !D * SI * !SN)	-0.00008	-0.00007	-0.00006
	(CK * !D * SI * !SN)	0.00141	0.00193	0.00372
	(CK * !D * !SI * SN)	-0.00008	0.00021	0.00120
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * SN)	0.00101	0.00130	0.00230
	(CK * !D * !SI * !SN)	-0.00008	0.00021	0.00120
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * !SN)	0.00101	0.00131	0.00230
	(!CK * D * SI * SN)	-0.00009	0.00019	0.00117
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00096	0.00125	0.00223
	(!CK * D * SI * !SN)	-0.00009	0.00019	0.00117
	(!CK * D * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00097	0.00125	0.00223
	(!CK * D * !SI * SN)	0.00216	0.00244	0.00345
	(!CK * D * !SI * SN)	-0.00002	-0.00001	-0.00000
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SI * SN)	0.00288	0.00316	0.00415
	(!CK * D * !SI * !SN)	0.00136	0.00165	0.00265
	(!CK * D * !SI * !SN)	0.00001	0.00002	0.00003
	(!CK * D * !SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00218	0.00246	0.00345
	(!CK * !D * SI * SN)	0.00143	0.00197	0.00379
	(!CK * !D * SI * SN)	0.00003	0.00004	0.00004
	(!CK * !D * SI * SN)	-0.00005	-0.00004	-0.00003
	(!CK * !D * SI * SN)	0.00285	0.00340	0.00523
	(!CK * !D * SI * !SN)	0.00146	0.00200	0.00382
	(!CK * !D * SI * !SN)	0.00004	0.00005	0.00006
	(!CK * !D * SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00292	0.00346	0.00529
	(!CK * !D * !SI * SN)	-0.00008	0.00021	0.00120
	(!CK * !D * !SI * SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * SN)	0.00101	0.00130	0.00230
	(!CK * !D * !SI * !SN)	-0.00008	0.00021	0.00120
	(!CK * !D * !SI * !SN)	0.00000	0.00001	0.00002
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * !SN)	0.00101	0.00130	0.00230

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SI * SN)**	0.00094	0.00127	0.00235
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00002
	(CK * D * SI * SN)	-0.00012	0.00020	0.00128
	(CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(CK * D * SI * !SN)	-0.00012	0.00020	0.00128
	(CK * D * !SI * SN)	0.00128	0.00164	0.00277
	(CK * D * !SI * SN)	0.00003	0.00004	0.00005
	(CK * D * !SI * SN)	-0.00004	-0.00004	-0.00003
	(CK * D * !SI * SN)	0.00061	0.00097	0.00213
	(CK * D * !SI * !SN)	0.00129	0.00164	0.00277
	(CK * D * !SI * !SN)	0.00004	0.00005	0.00006
	(CK * D * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(CK * D * !SI * !SN)	0.00063	0.00097	0.00214
	(CK * !D * SI * SN)	0.00171	0.00230	0.00426
	(CK * !D * SI * SN)	-0.00007	-0.00006	-0.00006
	(CK * !D * SI * SN)	0.00007	0.00007	0.00007
	(CK * !D * SI * SN)	0.00024	0.00081	0.00277
	(CK * !D * SI * !SN)	0.00171	0.00230	0.00427
	(CK * !D * SI * !SN)	-0.00007	-0.00006	-0.00006
	(CK * !D * SI * !SN)	0.00007	0.00007	0.00008
	(CK * !D * SI * !SN)	0.00022	0.00081	0.00278
	(CK * !D * !SI * SN)	0.00090	0.00123	0.00231
	(CK * !D * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00020	0.00013	0.00121
	(CK * !D * !SI * !SN)	0.00090	0.00123	0.00231
	(CK * !D * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00019	0.00013	0.00121
	(!CK * D * SI * SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * SI * SN)	0.00001	0.00002	0.00003
	(!CK * D * SI * SN)	-0.00013	0.00020	0.00128
	(!CK * D * SI * !SN)	0.00094	0.00127	0.00235
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * SI * !SN)	0.00001	0.00002	0.00003
	(!CK * D * SI * !SN)	-0.00013	0.00020	0.00128
	(!CK * D * !SI * SN)	0.00280	0.00315	0.00429
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00002
	(!CK * D * !SI * SN)	-0.00001	-0.00001	0.00000
	(!CK * D * !SI * SN)	0.00208	0.00244	0.00360
	(!CK * D * !SI * !SN)	0.00282	0.00315	0.00425
	(!CK * D * !SI * !SN)	0.00003	0.00004	0.00004
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00216	0.00249	0.00363
	(!CK * !D * SI * SN)	0.00276	0.00336	0.00537
	(!CK * !D * SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !D * SI * SN)	0.00003	0.00004	0.00005
	(!CK * !D * SI * SN)	0.00131	0.00192	0.00393
	(!CK * !D * SI * !SN)	0.00196	0.00256	0.00455
	(!CK * !D * SI * !SN)	-0.00001	0.00001	0.00003
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00064	0.00122	0.00322
	(!CK * !D * !SI * SN)	0.00090	0.00123	0.00231
	(!CK * !D * !SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00019	0.00013	0.00121
	(!CK * !D * !SI * !SN)	0.00090	0.00123	0.00231
	(!CK * !D * !SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00019	0.00013	0.00121

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SE * SN)**	0.00003	0.00014	0.00056
	(CK * D * SE * SN)	0.00006	0.00006	0.00006
	(CK * D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * SN)	0.00087	0.00098	0.00139
	(CK * D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * D * SE * !SN)	0.00006	0.00006	0.00007
	(CK * D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * D * SE * !SN)	0.00088	0.00098	0.00140
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SE * SN)	-0.00000	-0.00000	-0.00000
	(CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * SN)	0.00025	0.00026	0.00027
	(CK * D * !SE * !SN)	-0.00010	-0.00010	-0.00009
	(CK * D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00025	0.00026	0.00027
	(CK * !D * SE * SN)	0.00003	0.00014	0.00056
	(CK * !D * SE * SN)	0.00006	0.00006	0.00006
	(CK * !D * SE * SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * SN)	0.00087	0.00098	0.00139
	(CK * !D * SE * !SN)	0.00004	0.00015	0.00056
	(CK * !D * SE * !SN)	0.00006	0.00006	0.00007
	(CK * !D * SE * !SN)	-0.00007	-0.00007	-0.00007
	(CK * !D * SE * !SN)	0.00088	0.00098	0.00140
	(CK * !D * !SE * SN)	-0.00016	-0.00016	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	-0.00000	0.00000	0.00000
	(CK * !D * !SE * SN)	0.00020	0.00020	0.00021
	(CK * !D * !SE * !SN)	-0.00016	-0.00016	-0.00015
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	-0.00000	0.00000	0.00000
	(CK * !D * !SE * !SN)	0.00020	0.00020	0.00021
	(!CK * D * SE * SN)	0.00156	0.00167	0.00211
	(!CK * D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * D * SE * SN)	-0.00005	-0.00004	-0.00004
	(!CK * D * SE * SN)	0.00234	0.00245	0.00290
	(!CK * D * SE * !SN)	0.00160	0.00172	0.00215
	(!CK * D * SE * !SN)	0.00003	0.00004	0.00004
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00239	0.00250	0.00294
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(!CK * D * !SE * SN)	-0.00000	-0.00000	-0.00000
	(!CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00025	0.00026	0.00026
	(!CK * D * !SE * !SN)	-0.00010	-0.00010	-0.00009
	(!CK * D * !SE * !SN)	-0.00000	-0.00000	-0.00000
	(!CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00025	0.00026	0.00026
	(!CK * !D * SE * SN)	0.00156	0.00167	0.00211
	(!CK * !D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SN)	-0.00005	-0.00004	-0.00004
	(!CK * !D * SE * SN)	0.00234	0.00245	0.00290
	(!CK * !D * SE * !SN)	0.00159	0.00171	0.00214
	(!CK * !D * SE * !SN)	0.00002	0.00003	0.00003
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00236	0.00248	0.00292
	(!CK * !D * !SE * SN)	-0.00016	-0.00016	-0.00016
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * SN)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SN)	0.00020	0.00020	0.00020
	(!CK * !D * !SE * !SN)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * !SN)	0.00000	0.00000	0.00001
	(!CK * !D * !SE * !SN)	0.00019	0.00020	0.00020

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SE * SN)**	0.00133	0.00145	0.00191
	(CK * D * SE * SN)	-0.00006	-0.00006	-0.00006
	(CK * D * SE * SN)	0.00007	0.00007	0.00007
	(CK * D * SE * SN)	0.00050	0.00062	0.00107
	(CK * D * SE * !SN)	0.00133	0.00146	0.00191
	(CK * D * SE * !SN)	-0.00007	-0.00006	-0.00006
	(CK * D * SE * !SN)	0.00007	0.00007	0.00008
	(CK * D * SE * !SN)	0.00050	0.00062	0.00108
	(CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * SN)	0.00000	0.00000	0.00000
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * SN)	-0.00024	-0.00024	-0.00023
	(CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00000	0.00000	0.00000
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * D * !SE * !SN)	-0.00024	-0.00023	-0.00023
	(CK * !D * SE * SN)	0.00133	0.00145	0.00191
	(CK * !D * SE * SN)	-0.00006	-0.00006	-0.00006
	(CK * !D * SE * SN)	0.00007	0.00007	0.00007
	(CK * !D * SE * SN)	0.00050	0.00062	0.00107
	(CK * !D * SE * !SN)	0.00133	0.00145	0.00191
	(CK * !D * SE * !SN)	-0.00007	-0.00006	-0.00006
	(CK * !D * SE * !SN)	0.00007	0.00007	0.00008
	(CK * !D * SE * !SN)	0.00050	0.00062	0.00108
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00000	0.00000	0.00001
	(CK * !D * !SE * SN)	-0.00018	-0.00018	-0.00017
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00000	0.00000	0.00001
	(CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017
	(!CK * D * SE * SN)	0.00238	0.00252	0.00302
	(!CK * D * SE * SN)	-0.00004	-0.00003	-0.00003
	(!CK * D * SE * SN)	0.00004	0.00004	0.00005
	(!CK * D * SE * SN)	0.00160	0.00174	0.00223
	(!CK * D * SE * !SN)	0.00159	0.00172	0.00221
	(!CK * D * SE * !SN)	0.00001	0.00001	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00090	0.00103	0.00152
	(!CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * SN)	-0.00024	-0.00024	-0.00023
	(!CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * !SN)	-0.00024	-0.00024	-0.00023
	(!CK * !D * SE * SN)	0.00238	0.00252	0.00302
	(!CK * !D * SE * SN)	-0.00004	-0.00003	-0.00003
	(!CK * !D * SE * SN)	0.00004	0.00004	0.00005
	(!CK * !D * SE * SN)	0.00160	0.00174	0.00223
	(!CK * !D * SE * !SN)	0.00159	0.00172	0.00221
	(!CK * !D * SE * !SN)	-0.00000	0.00001	0.00001
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00090	0.00103	0.00152
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00000	-0.00000	0.00001
	(!CK * !D * !SE * SN)	-0.00018	-0.00018	-0.00017
	(!CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SE * SI)**	0.00004	0.00034	0.00136
	(CK * D * SE * SI)	0.00002	0.00002	0.00003
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * SI)	0.00064	0.00095	0.00196
	(CK * D * SE * !SI)	0.00004	0.00035	0.00136
	(CK * D * SE * !SI)	0.00002	0.00002	0.00003
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * SE * !SI)	0.00064	0.00095	0.00196
	(CK * D * !SE * SI)	0.00004	0.00034	0.00136
	(CK * D * !SE * SI)	0.00002	0.00002	0.00003
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00064	0.00095	0.00196
	(CK * D * !SE * !SI)	0.00004	0.00034	0.00136
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00003
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00064	0.00095	0.00196
	(CK * !D * SE * SI)	0.00004	0.00034	0.00136
	(CK * !D * SE * SI)	0.00002	0.00002	0.00003
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * SI)	0.00064	0.00095	0.00196
	(CK * !D * SE * !SI)	0.00004	0.00035	0.00136
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00003
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * SE * !SI)	0.00064	0.00095	0.00196
	(CK * !D * !SE * SI)	0.00004	0.00035	0.00136
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00003
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * SI)	0.00065	0.00095	0.00196
	(CK * !D * !SE * !SI)	0.00004	0.00035	0.00136
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00003
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SE * !SI)	0.00064	0.00095	0.00196
	(!CK * D * SE * SI)	0.00005	0.00035	0.00136
	(!CK * D * SE * SI)	0.00001	0.00002	0.00003
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00065	0.00095	0.00197
	(!CK * D * SE * !SI)	0.00085	0.00115	0.00216
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * D * SE * !SI)	0.00135	0.00165	0.00266
	(!CK * D * !SE * SI)	0.00005	0.00035	0.00136
	(!CK * D * !SE * SI)	0.00001	0.00002	0.00003
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00065	0.00095	0.00197
	(!CK * D * !SE * !SI)	0.00005	0.00035	0.00136
	(!CK * D * !SE * !SI)	0.00001	0.00002	0.00003
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00065	0.00095	0.00197
	(!CK * !D * SE * SI)	0.00005	0.00035	0.00136
	(!CK * !D * SE * SI)	0.00001	0.00002	0.00003
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00065	0.00095	0.00197
	(!CK * !D * SE * !SI)	0.00085	0.00115	0.00216
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * !D * SE * !SI)	0.00135	0.00165	0.00266
	(!CK * !D * !SE * SI)	0.00085	0.00115	0.00216
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * SI)	0.00135	0.00165	0.00266
	(!CK * !D * !SE * !SI)	0.00084	0.00115	0.00216
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * !SI)	0.00135	0.00165	0.00266

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7L	**(CK * D * SE * SI)**	0.00070	0.00103	0.00213
	(CK * D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00009	0.00043	0.00153
	(CK * D * SE * !SI)	0.00070	0.00103	0.00213
	(CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00009	0.00043	0.00153
	(CK * D * !SE * SI)	0.00070	0.00103	0.00213
	(CK * D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	0.00009	0.00043	0.00153
	(CK * D * !SE * !SI)	0.00070	0.00103	0.00213
	(CK * D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00009	0.00043	0.00153
	(CK * !D * SE * SI)	0.00070	0.00103	0.00213
	(CK * !D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00009	0.00043	0.00153
	(CK * !D * SE * !SI)	0.00070	0.00103	0.00213
	(CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00009	0.00043	0.00153
	(CK * !D * !SE * SI)	0.00070	0.00103	0.00213
	(CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00009	0.00043	0.00153
	(CK * !D * !SE * !SI)	0.00070	0.00103	0.00213
	(CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00009	0.00043	0.00153
	(!CK * D * SE * SI)	0.00069	0.00103	0.00213
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00009	0.00042	0.00152
	(!CK * D * SE * !SI)	0.00071	0.00104	0.00214
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00011	0.00044	0.00153
	(!CK * D * !SE * SI)	0.00069	0.00103	0.00213
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00009	0.00042	0.00152
	(!CK * D * !SE * !SI)	0.00069	0.00103	0.00213
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00009	0.00042	0.00152
	(!CK * !D * SE * SI)	0.00069	0.00103	0.00213
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00009	0.00042	0.00152
	(!CK * !D * SE * !SI)	0.00071	0.00104	0.00214
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00010	0.00044	0.00153
	(!CK * !D * !SE * SI)	0.00071	0.00104	0.00214
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00011	0.00044	0.00153
	(!CK * !D * !SE * !SI)	0.00071	0.00104	0.00214
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00011	0.00044	0.00153

SDFFSRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Clear and Set

Q = !SN? 1 : !RDN ? 0 : rising (CK) ? (SE&SI | !SE&D) : pre_Q

Truth Table

INPUT						OUTPUT
CK	D	RN	SE	SI	SN	Q
R	0	1	0	x	1	0
R	x	1	1	0	1	0
R	x	1	1	1	1	1
R	1	1	0	x	1	1
x	x	x	x	x	0	1
x	x	0	x	x	1	0
x	x	1	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSRQX1H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	CK	D	RN	SE	SI	SN	Q
SDFFSRQX1H7L	0.00088	0.00075	0.00082	0.00177	0.00076	0.00070	0.06164

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSRQX1H7L	0.00000	6.46826	9.86810

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max

SDFFSRQX1H7L	**CK->Q (RR)**	**(RN * SE * SN)**	0.14148	0.27932	0.60811
	CK->Q (RR)	**(RN * !SE * SN)**	0.14152	0.27936	0.60812
	SN->Q (FR)	**(CK * D * RN * SE * SI)**	0.10363	0.26915	0.67742
	SN->Q (FR)	**(CK * D * RN * SE * !SI)**	0.10363	0.26914	0.67746
	SN->Q (FR)	**(CK * D * RN * !SE * SI)**	0.10363	0.26914	0.67741
	SN->Q (FR)	**(CK * D * RN * !SE * !SI)**	0.10363	0.26914	0.67736
	SN->Q (FR)	**(CK * D * !RN * SE * SI)**	0.10816	0.27533	0.68997
	SN->Q (FR)	**(CK * D * !RN * SE * !SI)**	0.10820	0.27534	0.68997
	SN->Q (FR)	**(CK * D * !RN * !SE * SI)**	0.10821	0.27533	0.69002
	SN->Q (FR)	**(CK * D * !RN * !SE * !SI)**	0.10821	0.27533	0.69002
	SN->Q (FR)	**(CK * !D * RN * SE * SI)**	0.10363	0.26914	0.67742
	SN->Q (FR)	**(CK * !D * RN * SE * !SI)**	0.10363	0.26913	0.67746
	SN->Q (FR)	**(CK * !D * RN * !SE * SI)**	0.10363	0.26914	0.67736
	SN->Q (FR)	**(CK * !D * RN * !SE * !SI)**	0.10363	0.26914	0.67736
	SN->Q (FR)	**(CK * !D * !RN * SE * SI)**	0.10821	0.27533	0.68997
	SN->Q (FR)	**(CK * !D * !RN * SE * !SI)**	0.10821	0.27534	0.68998
	SN->Q (FR)	**(CK * !D * !RN * !SE * SI)**	0.10820	0.27534	0.68997
	SN->Q (FR)	**(CK * !D * !RN * !SE * !SI)**	0.10821	0.27533	0.68997
	SN->Q (FR)	**(!CK * D * RN * SE * SI)**	0.09042	0.25019	0.64197
	SN->Q (FR)	**(!CK * D * RN * SE * !SI)**	0.09736	0.26022	0.66002
	SN->Q (FR)	**(!CK * D * RN * !SE * SI)**	0.09047	0.25021	0.64230
	SN->Q (FR)	**(!CK * D * RN * !SE * !SI)**	0.09044	0.25021	0.64233
	SN->Q (FR)	**(!CK * D * !RN * SE * SI)**	0.09471	0.25799	0.66085
	SN->Q (FR)	**(!CK * D * !RN * SE * !SI)**	0.10603	0.27210	0.68342
	SN->Q (FR)	**(!CK * D * !RN * !SE * SI)**	0.09472	0.25800	0.66085
	SN->Q (FR)	**(!CK * D * !RN * !SE * !SI)**	0.09473	0.25800	0.66085
	SN->Q (FR)	**(!CK * !D * RN * SE * SI)**	0.09042	0.25020	0.64191
	SN->Q (FR)	**(!CK * !D * RN * SE * !SI)**	0.09736	0.26022	0.66002
	SN->Q (FR)	**(!CK * !D * RN * !SE * SI)**	0.09739	0.26027	0.66006
	SN->Q (FR)	**(!CK * !D * RN * !SE * !SI)**	0.09739	0.26026	0.66006
	SN->Q (FR)	**(!CK * !D * !RN * SE * SI)**	0.09470	0.25799	0.66085
	SN->Q (FR)	**(!CK * !D * !RN * SE * !SI)**	0.10603	0.27211	0.68342
	SN->Q (FR)	**(!CK * !D * !RN * !SE * SI)**	0.10607	0.27218	0.68395
	SN->Q (FR)	**(!CK * !D * !RN * !SE * !SI)**	0.10607	0.27218	0.68395

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSRQX1H7L	CK->Q (RF)	(RN * SE * SN)	0.12014	0.21960	0.43658
	CK->Q (RF)	(RN * !SE * SN)	0.12020	0.21965	0.43662
	RN->Q (FF)	(CK * D * SE * SI * SN)	0.11928	0.22829	0.48426
	RN->Q (FF)	(CK * D * SE * !SI * SN)	0.11929	0.22830	0.48424
	RN->Q (FF)	(CK * D * !SE * SI * SN)	0.11928	0.22830	0.48425
	RN->Q (FF)	(CK * D * !SE * !SI * SN)	0.11928	0.22830	0.48425
	RN->Q (FF)	(CK * !D * SE * SI * SN)	0.11928	0.22829	0.48426
	RN->Q (FF)	(CK * !D * SE * !SI * SN)	0.11929	0.22830	0.48427
	RN->Q (FF)	(CK * !D * !SE * SI * SN)	0.11929	0.22830	0.48426
	RN->Q (FF)	(CK * !D * !SE * !SI * SN)	0.11929	0.22830	0.48426
	RN->Q (FF)	(!CK * D * SE * SI * SN)	0.10795	0.21613	0.47198
	RN->Q (FF)	(!CK * D * SE * !SI * SN)	0.10290	0.21072	0.46570
	RN->Q (FF)	(!CK * D * !SE * SI * SN)	0.10796	0.21613	0.47199
	RN->Q (FF)	(!CK * D * !SE * !SI * SN)	0.10796	0.21613	0.47199
	RN->Q (FF)	(!CK * !D * SE * SI * SN)	0.10795	0.21613	0.47198
	RN->Q (FF)	(!CK * !D * SE * !SI * SN)	0.10290	0.21072	0.46570
	RN->Q (FF)	(!CK * !D * !SE * SI * SN)	0.10290	0.21072	0.46550
	RN->Q (FF)	(!CK * !D * !SE * !SI * SN)	0.10290	0.21072	0.46550

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	**hold**	**CK (R)**	-0.09518	-0.04972	-0.02580
	setup	**CK (R)**	0.05360	0.08953	0.14307

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	**hold**	**CK (R)**	-0.14234	-0.04723	0.01389
	setup	**CK (R)**	0.02881	0.09059	0.20057

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFSRQX1H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	**recovery**	**CK (R)**	0.01869	0.04167	0.06686
	removal	**CK (R)**	0.05207	0.08017	0.11912

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	hold	CK (R)	-0.06296	-0.04068	-0.02242
	setup	CK (R)	0.07182	0.10578	0.15294

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	hold	CK (R)	-0.11520	-0.03497	0.02224
	setup	CK (R)	0.07125	0.11606	0.19565

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	hold	CK (R)	-0.10129	-0.05466	-0.02999
	setup	CK (R)	0.06136	0.09626	0.14850

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	hold	CK (R)	-0.18025	-0.07793	-0.01925
	setup	CK (R)	0.06659	0.12920	0.25206

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX1H7L	recovery	CK (R)	-0.06177	-0.00481	0.09542
	removal	CK (R)	0.08202	0.12284	0.19017
	hold	RN (R)	-0.16451	-0.08760	-0.04438
	setup	RN (R)	0.08003	0.12593	0.20924

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSRQX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(RN * SE * SN)**	0.00403	0.00429	0.00525
	CK	**(RN * SE * SN)**	-0.00005	-0.00004	-0.00001
	CK	**(RN * SE * SN)**	0.00004	0.00006	0.00008
	CK	**(RN * SE * SN)**	0.00442	0.00470	0.00564
	CK	**(RN * SE * SN)**	0.00403	0.00430	0.00525
	CK	**(RN * SE * SN)**	-0.00004	-0.00004	-0.00003
	CK	**(RN * SE * SN)**	0.00005	0.00006	0.00006
	CK	**(RN * SE * SN)**	0.00444	0.00470	0.00564
	SN	**(CK * D * RN * SE * SI)**	0.00409	0.00430	0.00503
	SN	**(CK * D * RN * SE * SI)**	-0.00006	-0.00003	0.00001
	SN	**(CK * D * RN * SE * SI)**	0.00002	0.00006	0.00011
	SN	**(CK * D * RN * SE * SI)**	0.00345	0.00368	0.00442
	SN	**(CK * D * RN * SE * !SI)**	0.00414	0.00436	0.00509
	SN	**(CK * D * RN * SE * !SI)**	-0.00003	-0.00003	0.00002
	SN	**(CK * D * RN * SE * !SI)**	0.00003	0.00006	0.00012
	SN	**(CK * D * RN * SE * !SI)**	0.00350	0.00375	0.00448
	SN	**(CK * D * RN * !SE * SI)**	0.00409	0.00430	0.00503
	SN	**(CK * D * RN * !SE * SI)**	-0.00005	-0.00003	0.00001
	SN	**(CK * D * RN * !SE * SI)**	0.00002	0.00006	0.00011
	SN	**(CK * D * RN * !SE * SI)**	0.00346	0.00369	0.00442
	SN	**(CK * D * RN * !SE * !SI)**	0.00409	0.00430	0.00503
	SN	**(CK * D * RN * !SE * !SI)**	-0.00005	-0.00003	0.00001
	SN	**(CK * D * RN * !SE * !SI)**	0.00002	0.00006	0.00012
	SN	**(CK * D * RN * !SE * !SI)**	0.00346	0.00369	0.00442
	SN	**(CK * D * !RN * SE * SI)**	0.00418	0.00442	0.00527
	SN	**(CK * D * !RN * SE * SI)**	-0.00009	-0.00004	-0.00004
	SN	**(CK * D * !RN * SE * SI)**	0.00006	0.00009	0.00010
	SN	**(CK * D * !RN * SE * SI)**	0.00348	0.00373	0.00457
	SN	**(CK * D * !RN * SE * !SI)**	0.00424	0.00449	0.00534
	SN	**(CK * D * !RN * SE * !SI)**	-0.00007	-0.00004	-0.00002
	SN	**(CK * D * !RN * SE * !SI)**	0.00008	0.00009	0.00013
	SN	**(CK * D * !RN * SE * !SI)**	0.00353	0.00379	0.00464
	SN	**(CK * D * !RN * !SE * SI)**	0.00418	0.00442	0.00528
	SN	**(CK * D * !RN * !SE * SI)**	-0.00007	-0.00004	-0.00003
	SN	**(CK * D * !RN * !SE * SI)**	0.00009	0.00009	0.00010
	SN	**(CK * D * !RN * !SE * SI)**	0.00348	0.00373	0.00458
	SN	**(CK * D * !RN * !SE * !SI)**	0.00418	0.00442	0.00528
	SN	**(CK * D * !RN * !SE * !SI)**	-0.00007	-0.00004	-0.00003
	SN	**(CK * D * !RN * !SE * !SI)**	0.00009	0.00009	0.00013
	SN	**(CK * D * !RN * !SE * !SI)**	0.00348	0.00373	0.00458
	SN	**(CK * !D * RN * SE * SI)**	0.00407	0.00430	0.00502
	SN	**(CK * !D * RN * SE * SI)**	-0.00008	-0.00003	0.00001
	SN	**(CK * !D * RN * SE * SI)**	-0.00331	-0.00001	0.00011
	SN	**(CK * !D * RN * SE * SI)**	0.00345	0.00375	0.00656
	SN	**(CK * !D * RN * SE * !SI)**	0.00414	0.00436	0.00509
	SN	**(CK * !D * RN * SE * !SI)**	-0.00003	-0.00003	0.00002
	SN	**(CK * !D * RN * SE * !SI)**	0.00006	0.00006	0.00012
	SN	**(CK * !D * RN * SE * !SI)**	0.00350	0.00374	0.00448
	SN	**(CK * !D * RN * !SE * SI)**	0.00415	0.00437	0.00509
	SN	**(CK * !D * RN * !SE * SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CK * !D * RN * !SE * SI)**	0.00002	0.00006	0.00010
	SN	**(CK * !D * RN * !SE * SI)**	0.00351	0.00375	0.00448
	SN	**(CK * !D * RN * !SE * !SI)**	0.00415	0.00437	0.00509
	SN	**(CK * !D * RN * !SE * !SI)**	-0.00006	-0.00003	-0.00002
	SN	**(CK * !D * RN * !SE * !SI)**	0.00002	0.00006	0.00008
	SN	**(CK * !D * RN * !SE * !SI)**	0.00352	0.00375	0.00448
	SN	**(CK * !D * !RN * SE * SI)**	0.00418	0.00442	0.00527
	SN	**(CK * !D * !RN * SE * SI)**	-0.00005	-0.00004	-0.00004
	SN	**(CK * !D * !RN * SE * SI)**	0.00009	0.00009	0.00013
	SN	**(CK * !D * !RN * SE * SI)**	0.00348	0.00373	0.00457
	SN	**(CK * !D * !RN * SE * !SI)**	0.00424	0.00448	0.00533
	SN	**(CK * !D * !RN * SE * !SI)**	-0.00007	-0.00003	0.00000
	SN	**(CK * !D * !RN * SE * !SI)**	0.00006	0.00009	0.00015
	SN	**(CK * !D * !RN * !SE * SI)**	0.00352	0.00379	0.00463
	SN	**(CK * !D * !RN * !SE * SI)**	0.00425	0.00449	0.00534
	SN	**(CK * !D * !RN * !SE * SI)**	-0.00008	-0.00004	-0.00003
	SN	**(CK * !D * !RN * !SE * SI)**	0.00008	0.00009	0.00013
SDFFSRQX1HT7L	**SN**	**(CK * !D * !RN * !SE * SI)**	0.00352	0.00379	0.00464
	SN	**(CK * !D * !RN * !SE * !SI)**	0.00423	0.00448	0.00534
	SN	**(CK * !D * !RN * !SE * !SI)**	-0.00008	-0.00004	0.00001
	SN	**(CK * !D * !RN * !SE * !SI)**	0.00008	0.00009	0.00013
	SN	**(CK * !D * !RN * !SE * !SI)**	0.00352	0.00379	0.00464
	SN	**(!CK * D * RN * SE * SI)**	0.00265	0.00284	0.00345
	SN	**(!CK * D * RN * SE * SI)**	-0.00011	-0.00007	-0.00003
	SN	**(!CK * D * RN * SE * SI)**	-0.00004	0.00011	0.00016
	SN	**(!CK * D * RN * SE * SI)**	0.00196	0.00217	0.00278
	SN	**(!CK * D * RN * SE * !SI)**	0.00274	0.00293	0.00353
	SN	**(!CK * D * RN * SE * !SI)**	-0.00008	-0.00007	-0.00006
	SN	**(!CK * D * RN * SE * !SI)**	0.00010	0.00012	0.00016
	SN	**(!CK * D * RN * !SE * SI)**	0.00203	0.00222	0.00283
	SN	**(!CK * D * RN * !SE * SI)**	0.00265	0.00284	0.00347
	SN	**(!CK * D * RN * !SE * SI)**	-0.00007	-0.00007	-0.00006
	SN	**(!CK * D * RN * !SE * SI)**	-0.00009	0.00009	0.00015
	SN	**(!CK * D * RN * !SE * SI)**	0.00197	0.00219	0.00279
	SN	**(!CK * D * RN * !SE * !SI)**	0.00265	0.00284	0.00347
	SN	**(!CK * D * RN * !SE * !SI)**	-0.00007	-0.00007	-0.00006
	SN	**(!CK * D * RN * !SE * !SI)**	-0.00009	0.00009	0.00015
	SN	**(!CK * D * RN * !SE * !SI)**	0.00197	0.00219	0.00279
	SN	**(!CK * D * !RN * SE * SI)**	0.00360	0.00383	0.00459
	SN	**(!CK * D * !RN * SE * SI)**	-0.00018	-0.00014	-0.00011
	SN	**(!CK * D * !RN * SE * SI)**	0.00016	0.00018	0.00018
	SN	**(!CK * D * !RN * SE * SI)**	0.00269	0.00292	0.00368
	SN	**(!CK * D * !RN * SE * !SI)**	0.00298	0.00321	0.00392
	SN	**(!CK * D * !RN * SE * !SI)**	-0.00013	-0.00010	-0.00008
	SN	**(!CK * D * !RN * SE * !SI)**	0.00017	0.00017	0.00019
	SN	**(!CK * D * !RN * !SE * SI)**	0.00214	0.00237	0.00308
	SN	**(!CK * D * !RN * !SE * SI)**	0.00358	0.00383	0.00459
	SN	**(!CK * D * !RN * !SE * SI)**	-0.00018	-0.00014	-0.00011
	SN	**(!CK * D * !RN * !SE * SI)**	0.00018	0.00018	0.00019
	SN	**(!CK * D * !RN * !SE * SI)**	0.00269	0.00292	0.00368
	SN	**(!CK * D * !RN * !SE * !SI)**	0.00359	0.00383	0.00459
	SN	**(!CK * D * !RN * !SE * !SI)**	-0.00017	-0.00014	-0.00011
	SN	**(!CK * D * !RN * !SE * !SI)**	0.00018	0.00018	0.00019
	SN	**(!CK * D * !RN * !SE * !SI)**	0.00269	0.00292	0.00368
	SN	**(!CK * !D * RN * SE * SI)**	0.00265	0.00284	0.00345
	SN	**(!CK * !D * RN * SE * SI)**	-0.00010	-0.00007	-0.00003
	SN	**(!CK * !D * RN * SE * SI)**	-0.00004	0.00011	0.00016
	SN	**(!CK * !D * RN * SE * SI)**	0.00194	0.00217	0.00279
	SN	**(!CK * !D * RN * SE * !SI)**	0.00273	0.00293	0.00353
	SN	**(!CK * !D * RN * SE * !SI)**	-0.00008	-0.00007	-0.00006
	SN	**(!CK * !D * RN * SE * !SI)**	0.00012	0.00012	0.00016
	SN	**(!CK * !D * RN * !SE * SI)**	0.00202	0.00222	0.00283
	SN	**(!CK * !D * RN * !SE * SI)**	0.00274	0.00293	0.00354
	SN	**(!CK * !D * RN * !SE * SI)**	-0.00012	-0.00007	-0.00004
	SN	**(!CK * !D * RN * !SE * SI)**	0.00012	0.00012	0.00016
	SN	**(!CK * !D * RN * !SE * SI)**	0.00203	0.00222	0.00283
	SN	**(!CK * !D * RN * !SE * !SI)**	0.00274	0.00293	0.00354
	SN	**(!CK * !D * RN * !SE * !SI)**	-0.00008	-0.00007	-0.00004
	SN	**(!CK * !D * RN * !SE * !SI)**	0.00008	0.00012	0.00013
	SN	**(!CK * !D * RN * !SE * !SI)**	0.00203	0.00222	0.00283
	SN	**(!CK * !D * !RN * SE * SI)**	0.00360	0.00383	0.00459
	SN	**(!CK * !D * !RN * SE * SI)**	-0.00017	-0.00014	-0.00011
	SN	**(!CK * !D * !RN * SE * SI)**	0.00016	0.00018	0.00018
	SN	**(!CK * !D * !RN * SE * SI)**	0.00269	0.00292	0.00368
	SN	**(!CK * !D * !RN * SE * !SI)**	0.00297	0.00321	0.00391
	SN	**(!CK * !D * !RN * SE * !SI)**	-0.00013	-0.00010	-0.00007
	SN	**(!CK * !D * !RN * SE * !SI)**	0.00017	0.00017	0.00018
	SN	**(!CK * !D * !RN * SE * !SI)**	0.00216	0.00237	0.00307
	SN	**(!CK * !D * !RN * !SE * SI)**	0.00297	0.00321	0.00393
	SN	**(!CK * !D * !RN * !SE * SI)**	-0.00013	-0.00010	-0.00006
	SN	**(!CK * !D * !RN * !SE * SI)**	0.00017	0.00017	0.00018
	SN	**(!CK * !D * !RN * !SE * SI)**	0.00214	0.00237	0.00308
	SN	**(!CK * !D * !RN * !SE * !SI)**	0.00297	0.00321	0.00393
	SN	**(!CK * !D * !RN * !SE * !SI)**	-0.00013	-0.00010	-0.00006
	SN	**(!CK * !D * !RN * !SE * !SI)**	0.00017	0.00017	0.00018
	SN	**(!CK * !D * !RN * !SE * !SI)**	0.00214	0.00237	0.00308

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSRQX1H7L	**CK**	**(RN * SE * SN)**	0.00344	0.00373	0.00474
	CK	**(RN * SE * SN)**	0.00001	0.00004	0.00005
	CK	**(RN * SE * SN)**	-0.00006	-0.00005	-0.00003
	CK	**(RN * SE * SN)**	0.00425	0.00455	0.00561
	CK	**(RN * !SE * SN)**	0.00344	0.00374	0.00474
	CK	**(RN * !SE * SN)**	0.00004	0.00004	0.00004
	CK	**(RN * !SE * SN)**	-0.00006	-0.00006	-0.00005
	CK	**(RN * !SE * SN)**	0.00425	0.00455	0.00560
	RN	**(CK * D * SE * SI * SN)**	0.00427	0.00461	0.00569
	RN	**(CK * D * SE * SI * SN)**	-0.00000	0.00003	0.00007
	RN	**(CK * D * SE * SI * SN)**	-0.00003	-0.00001	0.00002
	RN	**(CK * D * SE * SI * SN)**	0.00385	0.00422	0.00531
	RN	**(CK * D * SE * !SI * SN)**	0.00421	0.00455	0.00563
	RN	**(CK * D * SE * !SI * SN)**	-0.00001	0.00003	0.00004
	RN	**(CK * D * SE * !SI * SN)**	-0.00005	-0.00002	0.00000
	RN	**(CK * D * SE * !SI * SN)**	0.00382	0.00416	0.00524
	RN	**(CK * D * !SE * SI * SN)**	0.00427	0.00461	0.00569
	RN	**(CK * D * !SE * SI * SN)**	-0.00000	0.00003	0.00007
	RN	**(CK * D * !SE * SI * SN)**	-0.00006	-0.00001	0.00007
	RN	**(CK * D * !SE * SI * SN)**	0.00384	0.00422	0.00534
	RN	**(CK * D * !SE * !SI * SN)**	0.00428	0.00461	0.00569
	RN	**(CK * D * !SE * !SI * SN)**	-0.00000	0.00003	0.00007
	RN	**(CK * D * !SE * !SI * SN)**	-0.00005	-0.00001	0.00002
	RN	**(CK * D * !SE * !SI * SN)**	0.00385	0.00422	0.00530
	RN	**(CK * !D * SE * SI * SN)**	0.00427	0.00461	0.00569
	RN	**(CK * !D * SE * SI * SN)**	-0.00000	0.00003	0.00007
	RN	**(CK * !D * SE * SI * SN)**	-0.00003	-0.00001	0.00002
	RN	**(CK * !D * SE * SI * SN)**	0.00385	0.00422	0.00532
	RN	**(CK * !D * SE * !SI * SN)**	0.00421	0.00455	0.00563
	RN	**(CK * !D * SE * !SI * SN)**	-0.00001	0.00003	0.00004
	RN	**(CK * !D * SE * !SI * SN)**	-0.00005	-0.00002	0.00000
	RN	**(CK * !D * SE * !SI * SN)**	0.00382	0.00416	0.00524
	RN	**(CK * !D * !SE * SI * SN)**	0.00422	0.00455	0.00563
	RN	**(CK * !D * !SE * SI * SN)**	-0.00000	0.00003	0.00005
	RN	**(CK * !D * !SE * SI * SN)**	-0.00005	-0.00001	0.00001
	RN	**(CK * !D * !SE * SI * SN)**	0.00381	0.00416	0.00527
	RN	**(CK * !D * !SE * !SI * SN)**	0.00421	0.00455	0.00563
	RN	**(CK * !D * !SE * !SI * SN)**	-0.00000	0.00003	0.00005
	RN	**(CK * !D * !SE * !SI * SN)**	-0.00005	-0.00002	-0.00000
	RN	**(CK * !D * !SE * !SI * SN)**	0.00383	0.00416	0.00524
	RN	**(!CK * D * SE * SI * SN)**	0.00318	0.00352	0.00461
	RN	**(!CK * D * SE * SI * SN)**	0.00004	0.00007	0.00009
	RN	**(!CK * D * SE * SI * SN)**	-0.00007	-0.00007	-0.00004
	RN	**(!CK * D * SE * SI * SN)**	0.00286	0.00321	0.00434
	RN	**(!CK * D * SE * !SI * SN)**	0.00314	0.00348	0.00457
	RN	**(!CK * D * SE * !SI * SN)**	0.00003	0.00006	0.00011
	RN	**(!CK * D * SE * !SI * SN)**	-0.00010	-0.00007	-0.00004
	RN	**(!CK * D * SE * !SI * SN)**	0.00282	0.00315	0.00428
	RN	**(!CK * D * !SE * SI * SN)**	0.00317	0.00352	0.00461
	RN	**(!CK * D * !SE * SI * SN)**	0.00005	0.00007	0.00011
	RN	**(!CK * D * !SE * SI * SN)**	-0.00011	-0.00007	-0.00004
	RN	**(!CK * D * !SE * SI * SN)**	0.00285	0.00321	0.00434
	RN	**(!CK * D * !SE * !SI * SN)**	0.00317	0.00352	0.00462
	RN	**(!CK * D * !SE * !SI * SN)**	0.00005	0.00007	0.00009
	RN	**(!CK * D * !SE * !SI * SN)**	-0.00011	-0.00007	-0.00004
	RN	**(!CK * D * !SE * !SI * SN)**	0.00285	0.00321	0.00434
	RN	**(!CK * !D * SE * SI * SN)**	0.00318	0.00352	0.00461
	RN	**(!CK * !D * SE * SI * SN)**	0.00005	0.00007	0.00009
	RN	**(!CK * !D * SE * SI * SN)**	-0.00007	-0.00007	-0.00004
	RN	**(!CK * !D * SE * SI * SN)**	0.00286	0.00321	0.00434
	RN	**(!CK * !D * SE * !SI * SN)**	0.00313	0.00348	0.00456
	RN	**(!CK * !D * SE * !SI * SN)**	0.00003	0.00006	0.00009
	RN	**(!CK * !D * SE * !SI * SN)**	-0.00010	-0.00007	-0.00005
	RN	**(!CK * !D * SE * !SI * SN)**	0.00282	0.00315	0.00428
	RN	**(!CK * !D * !SE * SI * SN)**	0.00314	0.00348	0.00457
	RN	**(!CK * !D * !SE * SI * SN)**	0.00002	0.00007	0.00010
	RN	**(!CK * !D * !SE * SI * SN)**	-0.00008	-0.00007	-0.00003
	RN	**(!CK * !D * !SE * SI * SN)**	0.00281	0.00315	0.00428
	RN	**(!CK * !D * !SE * !SI * SN)**	0.00314	0.00348	0.00457
	RN	**(!CK * !D * !SE * !SI * SN)**	0.00002	0.00007	0.00010
	RN	**(!CK * !D * !SE * !SI * SN)**	-0.00008	-0.00007	-0.00003
	RN	**(!CK * !D * !SE * !SI * SN)**	0.00281	0.00315	0.00428

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00343	0.00366	0.00452
	0.00002	0.00003	0.00003
	0.00002	0.00003	0.00004
	0.00398	0.00421	0.00506

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00341	0.00374	0.00486
	-0.00003	-0.00002	-0.00001
	-0.00000	0.00001	0.00001
	0.00281	0.00313	0.00425

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00134	0.00149	0.00203
	0.00008	0.00008	0.00008
	-0.00009	-0.00008	-0.00008
	0.00218	0.00233	0.00286

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00220	0.00237	0.00298
	-0.00008	-0.00008	-0.00008
	0.00008	0.00008	0.00009
	0.00136	0.00153	0.00215

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00080	0.00110	0.00209
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00127	0.00157	0.00256

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00115	0.00149	0.00257
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00011
	0.00035	0.00068	0.00177

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00208	0.00236	0.00334
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00007
	0.00284	0.00313	0.00411

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00275	0.00330	0.00519
	0.00000	0.00000	0.00000
	0.00006	0.00008	0.00009
	0.00129	0.00184	0.00372

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00127	0.00137	0.00175
	0.00006	0.00007	0.00007
	-0.00008	-0.00008	-0.00008
	0.00212	0.00221	0.00258

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00236	0.00248	0.00296
	-0.00007	-0.00007	-0.00006
	0.00008	0.00008	0.00008
	0.00153	0.00165	0.00213

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00038	0.00039	0.00039
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00094	0.00095	0.00095

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX1H7L	0.00015	0.00016	0.00018
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00020	-0.00019	-0.00018

SDFFSRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Clear and Set

Q = !SN? 1 : !RDN ? 0 : rising (CK) ? (SE&SI | !SE&D) : pre_Q

Truth Table

INPUT						OUTPUT
CK	D	RN	SE	SI	SN	Q
R	0	1	0	x	1	0
R	x	1	1	0	1	0
R	x	1	1	1	1	1
R	1	1	0	x	1	1
x	x	x	x	x	0	1
x	x	0	x	x	1	0
x	x	1	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSRQX2H7L	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	CK	D	RN	SE	SI	SN	Q
SDFFSRQX2H7L	0.00088	0.00077	0.00082	0.00178	0.00076	0.00070	0.08317

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSRQX2H7L	0.00000	7.08099	10.83250

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max

SDFFSRQX2H7L	**CK->Q (RR)**	**(RN * SE * SN)**	0.14200	0.28036	0.60982
	CK->Q (RR)	**(RN * !SE * SN)**	0.14205	0.28041	0.60977
	SN->Q (FR)	**(CK * D * RN * SE * SI)**	0.10459	0.27093	0.68056
	SN->Q (FR)	**(CK * D * RN * SE * !SI)**	0.10458	0.27094	0.68057
	SN->Q (FR)	**(CK * D * RN * !SE * SI)**	0.10459	0.27093	0.68057
	SN->Q (FR)	**(CK * D * RN * !SE * !SI)**	0.10459	0.27094	0.68057
	SN->Q (FR)	**(CK * D * !RN * SE * SI)**	0.10918	0.27720	0.69283
	SN->Q (FR)	**(CK * D * !RN * SE * !SI)**	0.10918	0.27720	0.69292
	SN->Q (FR)	**(CK * D * !RN * !SE * SI)**	0.10918	0.27720	0.69283
	SN->Q (FR)	**(CK * D * !RN * !SE * !SI)**	0.10918	0.27720	0.69283
	SN->Q (FR)	**(CK * !D * RN * SE * SI)**	0.10459	0.27093	0.68056
	SN->Q (FR)	**(CK * !D * RN * SE * !SI)**	0.10458	0.27094	0.68056
	SN->Q (FR)	**(CK * !D * RN * !SE * SI)**	0.10459	0.27093	0.68058
	SN->Q (FR)	**(CK * !D * RN * !SE * !SI)**	0.10459	0.27093	0.68058
	SN->Q (FR)	**(CK * !D * !RN * SE * SI)**	0.10918	0.27720	0.69283
	SN->Q (FR)	**(CK * !D * !RN * SE * !SI)**	0.10918	0.27720	0.69292
	SN->Q (FR)	**(CK * !D * !RN * !SE * SI)**	0.10918	0.27720	0.69295
	SN->Q (FR)	**(CK * !D * !RN * !SE * !SI)**	0.10918	0.27720	0.69295
	SN->Q (FR)	**(!CK * D * RN * SE * SI)**	0.09089	0.25156	0.64570
	SN->Q (FR)	**(!CK * D * RN * SE * !SI)**	0.09793	0.26164	0.66310
	SN->Q (FR)	**(!CK * D * RN * !SE * SI)**	0.09090	0.25153	0.64463
	SN->Q (FR)	**(!CK * D * RN * !SE * !SI)**	0.09090	0.25154	0.64529
	SN->Q (FR)	**(!CK * D * !RN * SE * SI)**	0.09526	0.25943	0.66355
	SN->Q (FR)	**(!CK * D * !RN * SE * !SI)**	0.10680	0.27371	0.68651
	SN->Q (FR)	**(!CK * D * !RN * !SE * SI)**	0.09526	0.25944	0.66361
	SN->Q (FR)	**(!CK * D * !RN * !SE * !SI)**	0.09526	0.25944	0.66361
	SN->Q (FR)	**(!CK * !D * RN * SE * SI)**	0.09089	0.25156	0.64570
	SN->Q (FR)	**(!CK * !D * RN * SE * !SI)**	0.09794	0.26164	0.66310
	SN->Q (FR)	**(!CK * !D * RN * !SE * SI)**	0.09797	0.26170	0.66304
	SN->Q (FR)	**(!CK * !D * RN * !SE * !SI)**	0.09797	0.26170	0.66304
	SN->Q (FR)	**(!CK * !D * !RN * SE * SI)**	0.09526	0.25943	0.66355
	SN->Q (FR)	**(!CK * !D * !RN * SE * !SI)**	0.10680	0.27371	0.68651
	SN->Q (FR)	**(!CK * !D * !RN * !SE * SI)**	0.10687	0.27375	0.68655
	SN->Q (FR)	**(!CK * !D * !RN * !SE * !SI)**	0.10693	0.27375	0.68655

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSRQX2H7L	CK->Q (RF)	(RN * SE * SN)	0.11990	0.21469	0.41667
	CK->Q (RF)	(RN * !SE * SN)	0.11994	0.21477	0.41674
	RN->Q (FF)	(CK * D * SE * SI * SN)	0.11971	0.22408	0.46519
	RN->Q (FF)	(CK * D * SE * !SI * SN)	0.11971	0.22409	0.46519
	RN->Q (FF)	(CK * D * !SE * SI * SN)	0.11971	0.22408	0.46519
	RN->Q (FF)	(CK * D * !SE * !SI * SN)	0.11971	0.22408	0.46519
	RN->Q (FF)	(CK * !D * SE * SI * SN)	0.11971	0.22408	0.46519
	RN->Q (FF)	(CK * !D * SE * !SI * SN)	0.11971	0.22409	0.46518
	RN->Q (FF)	(CK * !D * !SE * SI * SN)	0.11971	0.22409	0.46519
	RN->Q (FF)	(CK * !D * !SE * !SI * SN)	0.11971	0.22409	0.46518
	RN->Q (FF)	(!CK * D * SE * SI * SN)	0.10813	0.21160	0.45236
	RN->Q (FF)	(!CK * D * SE * !SI * SN)	0.10300	0.20613	0.44564
	RN->Q (FF)	(!CK * D * !SE * SI * SN)	0.10814	0.21161	0.45249
	RN->Q (FF)	(!CK * D * !SE * !SI * SN)	0.10814	0.21161	0.45242
	RN->Q (FF)	(!CK * !D * SE * SI * SN)	0.10813	0.21161	0.45268
	RN->Q (FF)	(!CK * !D * SE * !SI * SN)	0.10300	0.20613	0.44564
	RN->Q (FF)	(!CK * !D * !SE * SI * SN)	0.10300	0.20614	0.44565
	RN->Q (FF)	(!CK * !D * !SE * !SI * SN)	0.10300	0.20615	0.44571

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	**hold**	**CK (R)**	-0.09432	-0.04882	-0.02440
	setup	**CK (R)**	0.05275	0.08710	0.13914

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	**hold**	**CK (R)**	-0.13622	-0.04484	0.01266
	setup	**CK (R)**	0.02304	0.08651	0.19495

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFSRQX2H7L	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	**recovery**	**CK (R)**	0.01469	0.04089	0.06371
	removal	**CK (R)**	0.05207	0.08066	0.11912

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	hold	CK (R)	-0.06409	-0.04173	-0.02374
	setup	CK (R)	0.07187	0.10609	0.15064

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	hold	CK (R)	-0.10959	-0.03192	0.02188
	setup	CK (R)	0.06956	0.11408	0.19462

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	hold	CK (R)	-0.10012	-0.05512	-0.03006
	setup	CK (R)	0.06105	0.09611	0.14806

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	hold	CK (R)	-0.18115	-0.07873	-0.01982
	setup	CK (R)	0.06659	0.12955	0.25216

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSRQX2H7L	recovery	CK (R)	-0.06485	-0.00466	0.09921
	removal	CK (R)	0.08288	0.12344	0.19245
	hold	RN (R)	-0.16851	-0.08899	-0.04697
	setup	RN (R)	0.08003	0.12652	0.20819

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSRQX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(RN * SE * SN)**	0.00427	0.00454	0.00551
	CK	**(RN * SE * SN)**	-0.00006	-0.00005	-0.00005
	CK	**(RN * SE * SN)**	0.00006	0.00006	0.00006
	CK	**(RN * SE * SN)**	0.00467	0.00494	0.00588
	CK	**(RN * SE * SN)**	0.00427	0.00454	0.00550
	CK	**(RN * SE * SN)**	-0.00005	-0.00005	-0.00005
	CK	**(RN * SE * SN)**	0.00006	0.00006	0.00007
	CK	**(RN * SE * SN)**	0.00467	0.00494	0.00589
	SN	**(CK * D * RN * SE * SI)**	0.00433	0.00456	0.00532
	SN	**(CK * D * RN * SE * SI)**	-0.00008	-0.00004	-0.00003
	SN	**(CK * D * RN * SE * SI)**	0.00003	0.00007	0.00007
	SN	**(CK * D * RN * SE * SI)**	0.00370	0.00393	0.00470
	SN	**(CK * D * RN * SE * 5SI)**	0.00439	0.00462	0.00538
	SN	**(CK * D * RN * SE * 5SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CK * D * RN * SE * 5SI)**	0.00007	0.00007	0.00008
	SN	**(CK * D * RN * SE * 5SI)**	0.00376	0.00400	0.00476
	SN	**(CK * D * RN * 5SE * SI)**	0.00433	0.00456	0.00532
	SN	**(CK * D * RN * 5SE * SI)**	-0.00004	-0.00003	0.00001
	SN	**(CK * D * RN * 5SE * SI)**	0.00007	0.00007	0.00012
	SN	**(CK * D * RN * 5SE * 5SI)**	0.00370	0.00393	0.00470
	SN	**(CK * D * RN * 5SE * 5SI)**	0.00433	0.00456	0.00532
	SN	**(CK * D * RN * 5SE * 5SI)**	-0.00004	-0.00003	0.00001
	SN	**(CK * D * RN * 5SE * 5SI)**	0.00007	0.00007	0.00012
	SN	**(CK * D * 5RN * SE * SI)**	0.00370	0.00393	0.00470
	SN	**(CK * D * 5RN * SE * SI)**	0.00443	0.00468	0.00557
	SN	**(CK * D * 5RN * SE * SI)**	-0.00006	-0.00004	0.00000
	SN	**(CK * D * 5RN * SE * SI)**	0.00006	0.00010	0.00015
	SN	**(CK * D * 5RN * SE * SI)**	0.00371	0.00398	0.00486
	SN	**(CK * D * 5RN * SE * 5SI)**	0.00449	0.00474	0.00563
	SN	**(CK * D * 5RN * 5SE * SI)**	-0.00009	-0.00004	-0.00001
	SN	**(CK * D * 5RN * 5SE * SI)**	0.00006	0.00010	0.00011
	SN	**(CK * D * 5RN * 5SE * 5SI)**	0.00443	0.00468	0.00557
	SN	**(CK * D * 5RN * 5SE * 5SI)**	-0.00006	-0.00004	0.00000
	SN	**(CK * D * 5RN * 5SE * 5SI)**	0.00002	0.00010	0.00015
	SN	**(CK * D * 5RN * 5SE * 5SI)**	0.00371	0.00398	0.00486
	SN	**(CK * 5D * RN * SE * SI)**	0.00433	0.00456	0.00532
	SN	**(CK * 5D * RN * SE * SI)**	-0.00008	-0.00003	-0.00001
	SN	**(CK * 5D * RN * SE * SI)**	0.00005	0.00007	0.00008
	SN	**(CK * 5D * RN * SE * SI)**	0.00370	0.00393	0.00470
	SN	**(CK * 5D * RN * SE * 5SI)**	0.00439	0.00462	0.00538
	SN	**(CK * 5D * RN * SE * 5SI)**	-0.00004	-0.00003	-0.00001
	SN	**(CK * 5D * RN * SE * 5SI)**	0.00007	0.00007	0.00012
	SN	**(CK * 5D * RN * SE * 5SI)**	0.00376	0.00399	0.00476
	SN	**(CK * 5D * 5RN * SE * SI)**	0.00443	0.00468	0.00557
	SN	**(CK * 5D * 5RN * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CK * 5D * 5RN * SE * SI)**	0.00006	0.00010	0.00015
	SN	**(CK * 5D * 5RN * SE * SI)**	0.00371	0.00398	0.00486
	SN	**(CK * 5D * 5RN * SE * 5SI)**	0.00449	0.00474	0.00563
	SN	**(CK * 5D * 5RN * 5SE * SI)**	-0.00008	-0.00005	-0.00004
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00006	0.00010	0.00015
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00377	0.00404	0.00492
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00449	0.00475	0.00563
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	-0.00012	-0.00005	-0.00003
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00006	0.00010	0.00015
SDFFSRQX2H7L	**SN**	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00378	0.00404	0.00493
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00449	0.00474	0.00563
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	-0.00010	-0.00004	-0.00001
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00006	0.00010	0.00015
	SN	**(CK * 5D * 5RN * 5SE * 5SI)**	0.00378	0.00404	0.00493
	SN	**(5CK * D * RN * SE * SI)**	0.00288	0.00309	0.00378
	SN	**(5CK * D * RN * SE * SI)**	-0.00009	-0.00007	-0.00006
	SN	**(5CK * D * RN * SE * SI)**	0.00008	0.00012	0.00019
	SN	**(5CK * D * RN * SE * SI)**	0.00213	0.00240	0.00304
	SN	**(5CK * D * RN * SE * 5SI)**	0.00297	0.00317	0.00381
	SN	**(5CK * D * RN * SE * 5SI)**	-0.00008	-0.00008	-0.00008
	SN	**(5CK * D * RN * SE * 5SI)**	0.00013	0.00013	0.00018
	SN	**(5CK * D * RN * SE * 5SI)**	0.00223	0.00246	0.00308
	SN	**(5CK * D * RN * 5SE * SI)**	0.00288	0.00309	0.00371
	SN	**(5CK * D * RN * 5SE * SI)**	-0.00008	-0.00007	-0.00006
	SN	**(5CK * D * RN * 5SE * SI)**	0.00007	0.00012	0.00014
	SN	**(5CK * D * RN * 5SE * SI)**	0.00220	0.00241	0.00304
	SN	**(5CK * D * RN * 5SE * 5SI)**	0.00288	0.00309	0.00375
	SN	**(5CK * D * RN * 5SE * 5SI)**	-0.00008	-0.00007	-0.00006
	SN	**(5CK * D * RN * 5SE * 5SI)**	0.00007	0.00012	0.00017
	SN	**(5CK * D * RN * 5SE * 5SI)**	0.00218	0.00241	0.00304
	SN	**(5CK * D * 5RN * SE * SI)**	0.00382	0.00408	0.00487
	SN	**(5CK * D * 5RN * SE * SI)**	-0.00020	-0.00015	-0.00011
	SN	**(5CK * D * 5RN * SE * SI)**	0.00019	0.00019	0.00019
	SN	**(5CK * D * 5RN * SE * SI)**	0.00292	0.00316	0.00395
	SN	**(5CK * D * 5RN * SE * 5SI)**	0.00319	0.00346	0.00419
	SN	**(5CK * D * 5RN * SE * 5SI)**	-0.00011	-0.00010	-0.00006
	SN	**(5CK * D * 5RN * SE * 5SI)**	0.00018	0.00018	0.00023
	SN	**(5CK * D * 5RN * SE * 5SI)**	0.00235	0.00261	0.00334
	SN	**(5CK * D * 5RN * 5SE * SI)**	0.00384	0.00408	0.00487
	SN	**(5CK * D * 5RN * 5SE * SI)**	-0.00034	-0.00016	-0.00014
	SN	**(5CK * D * 5RN * 5SE * SI)**	-0.01926	-0.00054	0.00019
	SN	**(5CK * D * 5RN * 5SE * SI)**	0.00292	0.00387	0.02188
	SN	**(5CK * D * 5RN * 5SE * 5SI)**	0.00384	0.00408	0.00488
	SN	**(5CK * D * 5RN * 5SE * 5SI)**	-0.00036	-0.00016	-0.00013
	SN	**(5CK * D * 5RN * 5SE * 5SI)**	-0.02043	-0.00059	0.00023
	SN	**(5CK * D * 5RN * 5SE * 5SI)**	0.00290	0.00392	0.02297
	SN	**(5CK * 5D * RN * SE * SI)**	0.00288	0.00309	0.00378
	SN	**(5CK * 5D * RN * SE * SI)**	-0.00009	-0.00007	-0.00007
	SN	**(5CK * 5D * RN * SE * SI)**	0.00008	0.00012	0.00017
	SN	**(5CK * 5D * RN * SE * SI)**	0.00217	0.00240	0.00304
	SN	**(5CK * 5D * RN * SE * 5SI)**	0.00297	0.00317	0.00381
	SN	**(5CK * 5D * RN * SE * 5SI)**	-0.00008	-0.00008	-0.00008
	SN	**(5CK * 5D * RN * SE * 5SI)**	0.00011	0.00013	0.00017
	SN	**(5CK * 5D * RN * SE * 5SI)**	0.00222	0.00246	0.00308
	SN	**(5CK * 5D * RN * 5SE * SI)**	0.00297	0.00318	0.00381
	SN	**(5CK * 5D * RN * 5SE * SI)**	-0.00013	-0.00008	-0.00006
	SN	**(5CK * 5D * RN * 5SE * SI)**	0.00010	0.00013	0.00013
	SN	**(5CK * 5D * RN * 5SE * SI)**	0.00224	0.00246	0.00309
	SN	**(5CK * 5D * RN * 5SE * 5SI)**	0.00297	0.00317	0.00380
	SN	**(5CK * 5D * RN * 5SE * 5SI)**	-0.00013	-0.00008	-0.00005
	SN	**(5CK * 5D * RN * 5SE * 5SI)**	0.00010	0.00013	0.00019
	SN	**(5CK * 5D * RN * 5SE * 5SI)**	0.00224	0.00246	0.00308
	SN	**(5CK * 5D * 5RN * SE * SI)**	0.00382	0.00408	0.00487
	SN	**(5CK * 5D * 5RN * SE * SI)**	-0.00020	-0.00015	-0.00011
	SN	**(5CK * 5D * 5RN * SE * SI)**	0.00019	0.00019	0.00019
	SN	**(5CK * 5D * 5RN * SE * SI)**	0.00292	0.00316	0.00395
	SN	**(5CK * 5D * 5RN * SE * 5SI)**	0.00319	0.00346	0.00419
	SN	**(5CK * 5D * 5RN * SE * 5SI)**	-0.00011	-0.00010	-0.00006
	SN	**(5CK * 5D * 5RN * SE * 5SI)**	0.00018	0.00018	0.00023
	SN	**(5CK * 5D * 5RN * SE * 5SI)**	0.00235	0.00260	0.00334
	SN	**(5CK * 5D * 5RN * 5SE * SI)**	0.00315	0.00346	0.00419
	SN	**(5CK * 5D * 5RN * 5SE * SI)**	-0.00016	-0.00010	0.00004
	SN	**(5CK * 5D * 5RN * 5SE * SI)**	0.00014	0.00018	0.00021
	SN	**(5CK * 5D * 5RN * 5SE * SI)**	0.00237	0.00261	0.00334
	SN	**(5CK * 5D * 5RN * 5SE * 5SI)**	0.00321	0.00346	0.00419
	SN	**(5CK * 5D * 5RN * 5SE * 5SI)**	-0.00014	-0.00010	-0.00007
	SN	**(5CK * 5D * 5RN * 5SE * 5SI)**	0.00014	0.00018	0.00021
	SN	**(5CK * 5D * 5RN * 5SE * 5SI)**	0.00238	0.00261	0.00334

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSRQX2H7L	CK	(RN * SE * SN)	0.00371	0.00403	0.00503
	CK	(RN * SE * SN)	0.00005	0.00005	0.00008
	CK	(RN * SE * SN)	-0.00006	-0.00006	-0.00005
	CK	(RN * SE * SN)	0.00455	0.00486	0.00592
	CK	(RN * !SE * SN)	0.00373	0.00403	0.00503
	CK	(RN * !SE * SN)	0.00005	0.00005	0.00005
	CK	(RN * !SE * SN)	-0.00007	-0.00006	-0.00006
	CK	(RN * !SE * SN)	0.00456	0.00486	0.00592
	RN	(CK * D * SE * SI * SN)	0.00458	0.00492	0.00601
	RN	(CK * D * SE * SI * SN)	0.00003	0.00003	0.00004
	RN	(CK * D * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	RN	(CK * D * SE * SI * SN)	0.00421	0.00454	0.00565
	RN	(CK * D * SE * !SI * SN)	0.00452	0.00486	0.00595
	RN	(CK * D * SE * !SI * SN)	0.00002	0.00003	0.00006
	RN	(CK * D * SE * !SI * SN)	-0.00003	-0.00002	0.00000
	RN	(CK * D * SE * !SI * SN)	0.00413	0.00448	0.00559
	RN	(CK * D * !SE * SI * SN)	0.00458	0.00492	0.00601
	RN	(CK * D * !SE * SI * SN)	0.00003	0.00004	0.00007
	RN	(CK * D * !SE * SI * SN)	-0.00008	-0.00002	-0.00002
	RN	(CK * D * !SE * SI * SN)	0.00421	0.00454	0.00564
	RN	(CK * D * !SE * !SI * SN)	0.00458	0.00492	0.00601
	RN	(CK * D * !SE * !SI * SN)	0.00003	0.00004	0.00007
	RN	(CK * D * !SE * !SI * SN)	-0.00006	-0.00002	0.00001
	RN	(CK * D * !SE * !SI * SN)	0.00421	0.00454	0.00564
	RN	(CK * !D * SE * SI * SN)	0.00458	0.00492	0.00601
	RN	(CK * !D * SE * SI * SN)	0.00003	0.00003	0.00004
	RN	(CK * !D * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	RN	(CK * !D * SE * SI * SN)	0.00421	0.00454	0.00565
	RN	(CK * !D * SE * !SI * SN)	0.00452	0.00485	0.00595
	RN	(CK * !D * SE * !SI * SN)	0.00002	0.00003	0.00006
	RN	(CK * !D * SE * !SI * SN)	-0.00003	-0.00002	0.00000
	RN	(CK * !D * SE * !SI * SN)	0.00413	0.00448	0.00561
	RN	(CK * !D * !SE * SI * SN)	0.00452	0.00486	0.00595
	RN	(CK * !D * !SE * SI * SN)	0.00003	0.00003	0.00004
	RN	(CK * !D * !SE * SI * SN)	-0.00002	-0.00002	-0.00002
	RN	(CK * !D * !SE * SI * SN)	0.00415	0.00448	0.00560
	RN	(CK * !D * !SE * !SI * SN)	0.00452	0.00486	0.00595
	RN	(CK * !D * !SE * !SI * SN)	0.00003	0.00003	0.00004
	RN	(CK * !D * !SE * !SI * SN)	-0.00002	-0.00002	-0.00002
	RN	(CK * !D * !SE * !SI * SN)	0.00415	0.00448	0.00560
	RN	(!CK * D * SE * SI * SN)	0.00345	0.00381	0.00491
	RN	(!CK * D * SE * SI * SN)	0.00004	0.00008	0.00014
	RN	(!CK * D * SE * SI * SN)	-0.00011	-0.00008	-0.00005
	RN	(!CK * D * SE * SI * SN)	0.00315	0.00352	0.00468
	RN	(!CK * D * SE * !SI * SN)	0.00344	0.00378	0.00486
	RN	(!CK * D * SE * !SI * SN)	0.00005	0.00007	0.00010
	RN	(!CK * D * SE * !SI * SN)	-0.00012	-0.00007	-0.00003
	RN	(!CK * D * SE * !SI * SN)	0.00310	0.00346	0.00456
	RN	(!CK * D * !SE * SI * SN)	0.00346	0.00382	0.00491
	RN	(!CK * D * !SE * SI * SN)	0.00003	0.00008	0.00012
	RN	(!CK * D * !SE * SI * SN)	-0.00010	-0.00008	-0.00003
	RN	(!CK * D * !SE * SI * SN)	0.00315	0.00352	0.00468
	RN	(!CK * D * !SE * !SI * SN)	0.00346	0.00382	0.00491
	RN	(!CK * D * !SE * !SI * SN)	0.00003	0.00008	0.00012
	RN	(!CK * D * !SE * !SI * SN)	-0.00010	-0.00008	-0.00003
	RN	(!CK * D * !SE * !SI * SN)	0.00315	0.00352	0.00468
	RN	(!CK * !D * SE * SI * SN)	0.00346	0.00381	0.00491
	RN	(!CK * !D * SE * SI * SN)	0.00004	0.00008	0.00014
	RN	(!CK * !D * SE * SI * SN)	-0.00011	-0.00008	-0.00005
	RN	(!CK * !D * SE * SI * SN)	0.00315	0.00353	0.00468
	RN	(!CK * !D * SE * !SI * SN)	0.00343	0.00377	0.00486
	RN	(!CK * !D * SE * !SI * SN)	0.00007	0.00007	0.00010
	RN	(!CK * !D * SE * !SI * SN)	-0.00008	-0.00007	-0.00003
	RN	(!CK * !D * SE * !SI * SN)	0.00310	0.00346	0.00456
	RN	(!CK * !D * !SE * SI * SN)	0.00341	0.00377	0.00487
	RN	(!CK * !D * !SE * SI * SN)	0.00004	0.00008	0.00021
	RN	(!CK * !D * !SE * SI * SN)	-0.00012	-0.00007	-0.00006
	RN	(!CK * !D * !SE * SI * SN)	0.00312	0.00347	0.00457
	RN	(!CK * !D * !SE * !SI * SN)	0.00341	0.00377	0.00486
	RN	(!CK * !D * !SE * !SI * SN)	0.00003	0.00008	0.00012
	RN	(!CK * !D * !SE * !SI * SN)	-0.00012	-0.00007	-0.00006
	RN	(!CK * !D * !SE * !SI * SN)	0.00312	0.00346	0.00457

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00345	0.00368	0.00453
	0.00001	0.00002	0.00003
	0.00001	0.00002	0.00003
	0.00397	0.00422	0.00507

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00342	0.00375	0.00487
	-0.00002	-0.00002	-0.00001
	-0.00000	0.00001	0.00002
	0.00281	0.00314	0.00426

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00145	0.00159	0.00213
	0.00008	0.00008	0.00009
	-0.00009	-0.00009	-0.00008
	0.00233	0.00246	0.00298

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00224	0.00241	0.00306
	-0.00008	-0.00008	-0.00008
	0.00008	0.00009	0.00009
	0.00137	0.00154	0.00219

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00081	0.00111	0.00210
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00128	0.00157	0.00257

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00116	0.00149	0.00257
	0.00000	0.00000	0.00000
	0.00011	0.00011	0.00011
	0.00035	0.00068	0.00177

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00109	0.00159	0.00333
	0.00007	0.00007	0.00008
	-0.00008	-0.00007	-0.00006
	0.00256	0.00307	0.00481

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00277	0.00333	0.00525
	-0.00007	-0.00007	-0.00006
	0.00007	0.00008	0.00009
	0.00129	0.00185	0.00376

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00128	0.00138	0.00177
	0.00006	0.00007	0.00007
	-0.00008	-0.00008	-0.00008
	0.00212	0.00222	0.00259

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00238	0.00251	0.00298
	-0.00007	-0.00007	-0.00006
	0.00008	0.00008	0.00008
	0.00154	0.00167	0.00215

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00039	0.00040	0.00040
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00095	0.00095	0.00096

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSRQX2H7L	0.00015	0.00016	0.00017
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00020	-0.00019	-0.00016

SDFFSX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX0P5H7L	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX0P5H7L	0.00120	0.00079	0.00192	0.00077	0.00074	0.06353	0.06297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX0P5H7L	0.00000	6.89053	9.61955

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7L	CK->Q (RR)	(SE * SN)	0.10021	0.23563	0.56374
	CK->Q (RR)	(!SE * SN)	0.10023	0.23566	0.56388
	SN->Q (FR)	(CK * D * SE * SI)	0.08892	0.25189	0.65514
	SN->Q (FR)	(CK * D * SE * !SI)	0.08892	0.25188	0.65514
	SN->Q (FR)	(CK * D * !SE * SI)	0.08892	0.25189	0.65507
	SN->Q (FR)	(CK * D * !SE * !SI)	0.08892	0.25189	0.65507
	SN->Q (FR)	(CK * !D * SE * SI)	0.08892	0.25188	0.65502
	SN->Q (FR)	(CK * !D * SE * !SI)	0.08892	0.25188	0.65513
	SN->Q (FR)	(CK * !D * !SE * SI)	0.08892	0.25189	0.65515
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.08892	0.25189	0.65515
	SN->Q (FR)	(!CK * D * SE * SI)	0.07776	0.23528	0.62313
	SN->Q (FR)	(!CK * D * SE * !SI)	0.08243	0.24276	0.63664
	SN->Q (FR)	(!CK * D * !SE * SI)	0.07777	0.23528	0.62313
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.07777	0.23528	0.62313
	SN->Q (FR)	(!CK * !D * SE * SI)	0.07775	0.23528	0.62313
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.08243	0.24276	0.63664
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.08250	0.24278	0.63663
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.08250	0.24278	0.63663

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7L	CK->Q (RF)	(SE * SN)	0.11080	0.21313	0.44372
	CK->Q (RF)	(!SE * SN)	0.11080	0.21315	0.44374

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7L	CK->QN (RR)	(SE * SN)	0.08344	0.22572	0.55210
	CK->QN (RR)	(!SE * SN)	0.08344	0.22574	0.55222

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7L	CK->QN (RF)	(SE * SN)	0.06949	0.18050	0.41957
	CK->QN (RF)	(!SE * SN)	0.06951	0.18053	0.41961
	SN->QN (FF)	(CK * D * SE * SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * D * SE * !SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * D * !SE * SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * D * !SE * !SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * !D * SE * SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * !D * SE * !SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * !D * !SE * SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.05683	0.19796	0.52065
	SN->QN (FF)	(!CK * D * SE * SI)	0.04837	0.17741	0.47635
	SN->QN (FF)	(!CK * D * SE * !SI)	0.05247	0.18474	0.48931
	SN->QN (FF)	(!CK * D * !SE * SI)	0.04839	0.17740	0.47635
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.04839	0.17740	0.47635
	SN->QN (FF)	(!CK * !D * SE * SI)	0.04837	0.17741	0.47635
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.05247	0.18474	0.48931
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.05253	0.18477	0.48936
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.05254	0.18477	0.48936

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	**hold**	**CK (R)**	-0.07592	-0.03426	-0.01400
	setup	**CK (R)**	0.03949	0.06943	0.11711

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	**hold**	**CK (R)**	-0.14106	-0.04816	0.01040
	setup	**CK (R)**	0.02709	0.09139	0.20720

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	**hold**	**CK (R)**	-0.03975	-0.02274	0.00052
	setup	**CK (R)**	0.04287	0.08012	0.12102

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	**hold**	**CK (R)**	-0.11241	-0.03553	0.02060
	setup	**CK (R)**	0.05422	0.09640	0.19375

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	hold	CK (R)	-0.08631	-0.03966	-0.01721
	setup	CK (R)	0.04590	0.07688	0.12936

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	hold	CK (R)	-0.14600	-0.05439	0.00449
	setup	CK (R)	0.03397	0.09852	0.21280

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7L	recovery	CK (R)	-0.06965	-0.01074	0.11752
	removal	CK (R)	0.06527	0.10076	0.16462

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX0P5H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX0P5H7L	CK	(SE * SN)	0.00209	0.00227	0.00286
	CK	(SE * SN)	-0.00003	-0.00002	-0.00001
	CK	(SE * SN)	0.00001	0.00001	0.00003
	CK	(SE * SN)	0.00245	0.00263	0.00323
	CK	(!SE * SN)	0.00209	0.00227	0.00286
	CK	(!SE * SN)	-0.00002	-0.00002	-0.00001
	CK	(!SE * SN)	0.00001	0.00001	0.00003
	CK	(!SE * SN)	0.00246	0.00264	0.00324
	SN	(CK * D * SE * SI)	0.00215	0.00231	0.00300
	SN	(CK * D * SE * SI)	-0.00001	-0.00001	0.00001
	SN	(CK * D * SE * SI)	-0.00001	0.00002	0.00002
	SN	(CK * D * SE * SI)	0.00186	0.00202	0.00272
	SN	(CK * D * SE * !SI)	0.00218	0.00233	0.00303
	SN	(CK * D * SE * !SI)	-0.00001	-0.00001	-0.00001
	SN	(CK * D * SE * !SI)	0.00001	0.00002	0.00002
	SN	(CK * D * SE * !SI)	0.00189	0.00205	0.00274
	SN	(CK * D * !SE * SI)	0.00215	0.00231	0.00300
	SN	(CK * D * !SE * SI)	-0.00002	-0.00001	0.00001
	SN	(CK * D * !SE * SI)	-0.00000	0.00002	0.00002
	SN	(CK * D * !SE * SI)	0.00187	0.00202	0.00272
	SN	(CK * D * !SE * !SI)	0.00215	0.00231	0.00300
	SN	(CK * D * !SE * !SI)	-0.00002	-0.00001	0.00001
	SN	(CK * D * !SE * !SI)	-0.00000	0.00002	0.00002
	SN	(CK * D * !SE * !SI)	0.00187	0.00202	0.00272
	SN	(CK * !D * SE * SI)	0.00215	0.00231	0.00300
	SN	(CK * !D * SE * SI)	-0.00001	-0.00001	0.00001
	SN	(CK * !D * SE * SI)	-0.00001	0.00002	0.00002
	SN	(CK * !D * SE * SI)	0.00186	0.00202	0.00272
	SN	(CK * !D * SE * !SI)	0.00218	0.00233	0.00302
	SN	(CK * !D * SE * !SI)	-0.00001	-0.00001	-0.00001
	SN	(CK * !D * SE * !SI)	0.00001	0.00002	0.00002
	SN	(CK * !D * SE * !SI)	0.00189	0.00205	0.00274
	SN	(CK * !D * !SE * SI)	0.00218	0.00234	0.00303
	SN	(CK * !D * !SE * SI)	-0.00001	-0.00001	-0.00001
	SN	(CK * !D * !SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * !SE * SI)	0.00188	0.00205	0.00275
	SN	(CK * !D * !SE * !SI)	0.00218	0.00233	0.00303
	SN	(CK * !D * !SE * !SI)	-0.00001	-0.00001	0.00000
	SN	(CK * !D * !SE * !SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * !SE * !SI)	0.00188	0.00205	0.00275
	SN	(!CK * D * SE * SI)	0.00150	0.00165	0.00221
	SN	(!CK * D * SE * SI)	-0.00005	-0.00003	-0.00003
	SN	(!CK * D * SE * SI)	0.00002	0.00004	0.00005
	SN	(!CK * D * SE * SI)	0.00118	0.00134	0.00191
	SN	(!CK * D * SE * !SI)	0.00154	0.00170	0.00226
	SN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00001
	SN	(!CK * D * SE * !SI)	0.00002	0.00004	0.00005
	SN	(!CK * D * SE * !SI)	0.00121	0.00137	0.00193
	SN	(!CK * D * !SE * SI)	0.00150	0.00165	0.00221
	SN	(!CK * D * !SE * SI)	-0.00004	-0.00003	-0.00001
	SN	(!CK * D * !SE * SI)	0.00001	0.00003	0.00004
	SN	(!CK * D * !SE * SI)	0.00119	0.00134	0.00191
	SN	(!CK * D * !SE * !SI)	0.00150	0.00165	0.00222
	SN	(!CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00001
	SN	(!CK * D * !SE * !SI)	0.00001	0.00003	0.00004
	SN	(!CK * D * !SE * !SI)	0.00119	0.00134	0.00191
	SN	(!CK * !D * SE * SI)	0.00150	0.00165	0.00221
	SN	(!CK * !D * SE * SI)	-0.00005	-0.00003	-0.00003
	SN	(!CK * !D * SE * SI)	0.00002	0.00004	0.00005
	SN	(!CK * !D * SE * SI)	0.00118	0.00134	0.00191
	SN	(!CK * !D * SE * !SI)	0.00154	0.00170	0.00226
	SN	(!CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00001
	SN	(!CK * !D * SE * !SI)	0.00002	0.00004	0.00005
	SN	(!CK * !D * SE * !SI)	0.00121	0.00136	0.00193
	SN	(!CK * !D * !SE * SI)	0.00154	0.00170	0.00226
	SN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * !D * !SE * SI)	0.00002	0.00004	0.00006
	SN	(!CK * !D * !SE * SI)	0.00121	0.00137	0.00193
	SN	(!CK * !D * !SE * !SI)	0.00154	0.00170	0.00226
	SN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * !D * !SE * !SI)	0.00002	0.00004	0.00005
	SN	(!CK * !D * !SE * !SI)	0.00121	0.00137	0.00193

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7L	CK	(SE * SN)	0.00209	0.00227	0.00286
	CK	(SE * SN)	0.00001	0.00002	0.00003
	CK	(SE * SN)	-0.00001	-0.00001	-0.00001
	CK	(SE * SN)	0.00253	0.00270	0.00330
	CK	(!SE * SN)	0.00209	0.00227	0.00286
	CK	(!SE * SN)	0.00001	0.00002	0.00011
	CK	(!SE * SN)	-0.00001	-0.00001	-0.00001
	CK	(!SE * SN)	0.00253	0.00270	0.00330

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7L	CK	(SE * SN)	0.00209	0.00227	0.00287
	CK	(SE * SN)	0.00000	0.00002	0.00003
	CK	(SE * SN)	-0.00002	-0.00001	0.00001
	CK	(SE * SN)	0.00253	0.00270	0.00332
	CK	(!SE * SN)	0.00209	0.00227	0.00287
	CK	(!SE * SN)	0.00000	0.00002	0.00003
	CK	(!SE * SN)	-0.00001	-0.00001	0.00001
	CK	(!SE * SN)	0.00253	0.00271	0.00331

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX0P5H7L	CK	(SE * SN)	0.00208	0.00226	0.00286
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00000	0.00001	0.00003
	CK	(SE * SN)	0.00246	0.00263	0.00323
	CK	(!SE * SN)	0.00209	0.00226	0.00286
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00000	0.00001	0.00002
	CK	(!SE * SN)	0.00246	0.00264	0.00323
	SN	(CK * D * SE * SI)	0.00214	0.00231	0.00300
	SN	(CK * D * SE * SI)	-0.00003	-0.00001	0.00001
	SN	(CK * D * SE * SI)	-0.00000	0.00002	0.00004
	SN	(CK * D * SE * SI)	0.00185	0.00202	0.00271
	SN	(CK * D * SE * !SI)	0.00218	0.00233	0.00302
	SN	(CK * D * SE * !SI)	-0.00003	-0.00001	0.00001
	SN	(CK * D * SE * !SI)	0.00000	0.00002	0.00003
	SN	(CK * D * SE * !SI)	0.00188	0.00205	0.00274
	SN	(CK * D * !SE * SI)	0.00215	0.00231	0.00300
	SN	(CK * D * !SE * SI)	-0.00003	-0.00001	0.00001
	SN	(CK * D * !SE * SI)	-0.00000	0.00002	0.00003
	SN	(CK * D * !SE * SI)	0.00185	0.00202	0.00271
	SN	(CK * D * !SE * !SI)	0.00215	0.00231	0.00300
	SN	(CK * D * !SE * !SI)	-0.00003	-0.00001	0.00001
	SN	(CK * D * !SE * !SI)	-0.00000	0.00001	0.00003
	SN	(CK * D * !SE * !SI)	0.00185	0.00202	0.00272
	SN	(CK * !D * SE * SI)	0.00214	0.00231	0.00300
	SN	(CK * !D * SE * SI)	-0.00003	-0.00001	0.00001
	SN	(CK * !D * SE * SI)	-0.00000	0.00002	0.00004
	SN	(CK * !D * SE * SI)	0.00185	0.00202	0.00272
	SN	(CK * !D * SE * !SI)	0.00218	0.00233	0.00302
	SN	(CK * !D * SE * !SI)	-0.00003	-0.00001	0.00001
	SN	(CK * !D * SE * !SI)	-0.00000	0.00002	0.00004
	SN	(CK * !D * SE * !SI)	0.00188	0.00205	0.00274
	SN	(CK * !D * !SE * SI)	0.00217	0.00233	0.00302
	SN	(CK * !D * !SE * SI)	-0.00003	-0.00001	0.00001
	SN	(CK * !D * !SE * SI)	-0.00000	0.00001	0.00004
	SN	(CK * !D * !SE * SI)	0.00189	0.00205	0.00274
	SN	(CK * !D * !SE * !SI)	0.00217	0.00233	0.00302
	SN	(CK * !D * !SE * !SI)	-0.00003	-0.00001	0.00001
	SN	(CK * !D * !SE * !SI)	-0.00000	0.00001	0.00004
	SN	(CK * !D * !SE * !SI)	0.00189	0.00205	0.00274
	SN	(!CK * D * SE * SI)	0.00150	0.00165	0.00221
	SN	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * D * SE * SI)	0.00002	0.00004	0.00006
	SN	(!CK * D * SE * SI)	0.00118	0.00134	0.00191
	SN	(!CK * D * SE * !SI)	0.00155	0.00170	0.00226
	SN	(!CK * D * SE * !SI)	-0.00004	-0.00003	-0.00001
	SN	(!CK * D * SE * !SI)	0.00004	0.00005	0.00005
	SN	(!CK * D * SE * !SI)	0.00122	0.00136	0.00193
	SN	(!CK * D * !SE * SI)	0.00150	0.00165	0.00222
	SN	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * D * !SE * SI)	0.00002	0.00004	0.00006
	SN	(!CK * D * !SE * SI)	0.00118	0.00134	0.00191
	SN	(!CK * D * !SE * !SI)	0.00150	0.00165	0.00222
	SN	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * D * !SE * !SI)	0.00002	0.00004	0.00006
	SN	(!CK * D * !SE * !SI)	0.00118	0.00134	0.00191
	SN	(!CK * !D * SE * SI)	0.00150	0.00165	0.00222
	SN	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * !D * SE * SI)	0.00002	0.00004	0.00006
	SN	(!CK * !D * SE * SI)	0.00118	0.00134	0.00191
	SN	(!CK * !D * SE * !SI)	0.00155	0.00170	0.00226
	SN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00001
	SN	(!CK * !D * SE * !SI)	0.00004	0.00005	0.00005
	SN	(!CK * !D * SE * !SI)	0.00122	0.00136	0.00193
	SN	(!CK * !D * !SE * SI)	0.00155	0.00170	0.00226
	SN	(!CK * !D * !SE * SI)	-0.00005	-0.00003	0.00000
	SN	(!CK * !D * !SE * SI)	0.00004	0.00004	0.00006
	SN	(!CK * !D * !SE * SI)	0.00122	0.00136	0.00193
	SN	(!CK * !D * !SE * !SI)	0.00155	0.00170	0.00226
	SN	(!CK * !D * !SE * !SI)	-0.00005	-0.00003	0.00000
	SN	(!CK * !D * !SE * !SI)	0.00004	0.00004	0.00005
	SN	(!CK * !D * !SE * !SI)	0.00122	0.00136	0.00193

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00322	0.00350	0.00452
	0.00000	0.00001	0.00002
	0.00002	0.00003	0.00004
	0.00396	0.00425	0.00527

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00401	0.00441	0.00575
	-0.00002	-0.00001	0.00000
	0.00000	0.00001	0.00001
	0.00319	0.00359	0.00493

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00143	0.00160	0.00223
	0.00009	0.00010	0.00011
	-0.00010	-0.00010	-0.00010
	0.00240	0.00256	0.00318

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00262	0.00281	0.00353
	-0.00010	-0.00010	-0.00009
	0.00010	0.00010	0.00010
	0.00165	0.00185	0.00257

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00118	0.00172	0.00361
	0.00012	0.00012	0.00013
	-0.00010	-0.00009	-0.00008
	0.00284	0.00338	0.00525

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00317	0.00384	0.00607
	-0.00012	-0.00010	-0.00010
	0.00008	0.00009	0.00010
	0.00157	0.00222	0.00446

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00123	0.00138	0.00195
	0.00008	0.00009	0.00010
	-0.00009	-0.00009	-0.00009
	0.00217	0.00232	0.00289

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00283	0.00300	0.00365
	-0.00010	-0.00009	-0.00008
	0.00009	0.00009	0.00009
	0.00188	0.00206	0.00271

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00042	0.00043	0.00043
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00110	0.00111	0.00112

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7L	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00029	-0.00028	-0.00026

SDFFSX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX1H7L	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX1H7L	0.00120	0.00080	0.00192	0.00077	0.00075	0.07459	0.07446

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX1H7L	0.00000	7.13739	9.85421

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7L	CK->Q (RR)	(SE * SN)	0.09757	0.23201	0.55789
	CK->Q (RR)	(!SE * SN)	0.09759	0.23202	0.55733
	SN->Q (FR)	(CK * D * SE * SI)	0.08877	0.25142	0.65355
	SN->Q (FR)	(CK * D * SE * !SI)	0.08883	0.25144	0.65402
	SN->Q (FR)	(CK * D * !SE * SI)	0.08878	0.25142	0.65368
	SN->Q (FR)	(CK * D * !SE * !SI)	0.08878	0.25143	0.65375
	SN->Q (FR)	(CK * !D * SE * SI)	0.08877	0.25142	0.65355
	SN->Q (FR)	(CK * !D * SE * !SI)	0.08879	0.25144	0.65402
	SN->Q (FR)	(CK * !D * !SE * SI)	0.08879	0.25144	0.65402
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.08879	0.25144	0.65402
	SN->Q (FR)	(!CK * D * SE * SI)	0.07724	0.23428	0.62115
	SN->Q (FR)	(!CK * D * SE * !SI)	0.08200	0.24175	0.63473
	SN->Q (FR)	(!CK * D * !SE * SI)	0.07719	0.23429	0.62112
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.07719	0.23428	0.62112
	SN->Q (FR)	(!CK * !D * SE * SI)	0.07724	0.23428	0.62105
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.08200	0.24175	0.63473
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.08210	0.24178	0.63472
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.08210	0.24178	0.63472

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7L	CK->Q (RF)	(SE * SN)	0.10910	0.21123	0.44106
	CK->Q (RF)	(!SE * SN)	0.10911	0.21124	0.44109

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7L	CK->QN (RR)	(SE * SN)	0.08205	0.22456	0.55093
	CK->QN (RR)	(!SE * SN)	0.08205	0.22457	0.55063

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7L	CK->QN (RF)	(SE * SN)	0.06820	0.17968	0.41933
	CK->QN (RF)	(!SE * SN)	0.06822	0.17971	0.41934
	SN->QN (FF)	(CK * D * SE * SI)	0.05754	0.20065	0.52623
	SN->QN (FF)	(CK * D * SE * !SI)	0.05760	0.20065	0.52623
	SN->QN (FF)	(CK * D * !SE * SI)	0.05754	0.20065	0.52623
	SN->QN (FF)	(CK * D * !SE * !SI)	0.05754	0.20065	0.52623
	SN->QN (FF)	(CK * !D * SE * SI)	0.05754	0.20065	0.52623
	SN->QN (FF)	(CK * !D * SE * !SI)	0.05755	0.20065	0.52623
	SN->QN (FF)	(CK * !D * !SE * SI)	0.05755	0.20065	0.52623
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.05755	0.20065	0.52623
	SN->QN (FF)	(!CK * D * SE * SI)	0.04868	0.17939	0.48102
	SN->QN (FF)	(!CK * D * SE * !SI)	0.05285	0.18670	0.49403
	SN->QN (FF)	(!CK * D * !SE * SI)	0.04863	0.17939	0.48102
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.04863	0.17939	0.48102
	SN->QN (FF)	(!CK * !D * SE * SI)	0.04868	0.17939	0.48102
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.05285	0.18670	0.49403
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.05295	0.18673	0.49403
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.05295	0.18673	0.49403

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	**hold**	**CK (R)**	-0.07369	-0.03326	-0.01400
	setup	**CK (R)**	0.04161	0.06914	0.11497

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	**hold**	**CK (R)**	-0.13871	-0.04784	0.01192
	setup	**CK (R)**	0.02458	0.09109	0.20572

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	**hold**	**CK (R)**	-0.03733	-0.02180	0.00029
	setup	**CK (R)**	0.04648	0.08078	0.12250

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	**hold**	**CK (R)**	-0.11103	-0.03486	0.02069
	setup	**CK (R)**	0.05317	0.09617	0.19594

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	hold	CK (R)	-0.08382	-0.03845	-0.01727
	setup	CK (R)	0.04386	0.07679	0.12750

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	hold	CK (R)	-0.14481	-0.05427	0.00335
	setup	CK (R)	0.03397	0.09892	0.21328

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7L	recovery	CK (R)	-0.06890	-0.01038	0.12116
	removal	CK (R)	0.06527	0.10023	0.16246

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX1H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00213	0.00233	0.00293
	CK	**(SE * SN)**	-0.00002	-0.00001	0.00001
	CK	**(SE * SN)**	0.00001	0.00001	0.00003
	CK	**(SE * SN)**	0.00251	0.00270	0.00331
	CK	**(!SE * SN)**	0.00216	0.00233	0.00293
	CK	**(!SE * SN)**	-0.00002	-0.00001	0.00000
	CK	**(!SE * SN)**	0.00000	0.00001	0.00003
	CK	**(!SE * SN)**	0.00252	0.00270	0.00331
	SN	**(CK * D * SE * SI)**	0.00223	0.00240	0.00316
	SN	**(CK * D * SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * D * SE * SI)**	-0.00001	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00194	0.00211	0.00287
	SN	**(CK * D * SE * !SI)**	0.00226	0.00243	0.00319
	SN	**(CK * D * SE * !SI)**	-0.00001	-0.00001	0.00001
	SN	**(CK * D * SE * !SI)**	-0.00001	0.00002	0.00002
	SN	**(CK * D * SE * !SI)**	0.00197	0.00214	0.00290
	SN	**(CK * D * !SE * SI)**	0.00223	0.00240	0.00316
	SN	**(CK * D * !SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * D * !SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * D * !SE * SI)**	0.00194	0.00211	0.00287
	SN	**(CK * D * !SE * !SI)**	0.00223	0.00240	0.00316
	SN	**(CK * D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * D * !SE * !SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * D * !SE * !SI)**	0.00194	0.00211	0.00287
	SN	**(CK * !D * SE * SI)**	0.00223	0.00240	0.00316
	SN	**(CK * !D * SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * SE * SI)**	-0.00001	0.00002	0.00004
	SN	**(CK * !D * SE * SI)**	0.00194	0.00211	0.00287
	SN	**(CK * !D * SE * !SI)**	0.00226	0.00243	0.00318
	SN	**(CK * !D * SE * !SI)**	-0.00001	-0.00001	0.00001
	SN	**(CK * !D * SE * !SI)**	-0.00001	0.00002	0.00002
	SN	**(CK * !D * SE * !SI)**	0.00197	0.00214	0.00290
	SN	**(CK * !D * !SE * SI)**	0.00226	0.00243	0.00319
	SN	**(CK * !D * !SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * !SE * SI)**	-0.00001	0.00002	0.00004
SDFFSX1H7L	**SN**	**(CK * !D * !SE * SI)**	0.00197	0.00214	0.00290
	SN	**(CK * !D * !SE * !SI)**	0.00226	0.00243	0.00319
	SN	**(CK * !D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * !SE * !SI)**	-0.00001	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00197	0.00214	0.00290
	SN	**(!CK * D * SE * SI)**	0.00156	0.00172	0.00234
	SN	**(!CK * D * SE * SI)**	-0.00003	-0.00003	0.00000
	SN	**(!CK * D * SE * SI)**	0.00003	0.00004	0.00004
	SN	**(!CK * D * SE * SI)**	0.00125	0.00141	0.00203
	SN	**(!CK * D * SE * !SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * D * SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00004	0.00005
	SN	**(!CK * D * SE * !SI)**	0.00128	0.00144	0.00205
	SN	**(!CK * D * !SE * SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * D * !SE * SI)**	-0.00003	-0.00003	-0.00000
	SN	**(!CK * D * !SE * SI)**	0.00001	0.00004	0.00004
	SN	**(!CK * D * !SE * SI)**	0.00125	0.00141	0.00203
	SN	**(!CK * D * !SE * !SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * D * !SE * !SI)**	-0.00003	-0.00003	-0.00000
	SN	**(!CK * D * !SE * !SI)**	0.00001	0.00004	0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00125	0.00141	0.00203
	SN	**(!CK * !D * SE * SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * !D * SE * SI)**	-0.00003	-0.00003	-0.00000
	SN	**(!CK * !D * SE * SI)**	0.00003	0.00004	0.00005
	SN	**(!CK * !D * SE * SI)**	0.00125	0.00141	0.00203
	SN	**(!CK * !D * SE * !SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * !D * SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00004	0.00005
	SN	**(!CK * !D * SE * !SI)**	0.00128	0.00144	0.00205
	SN	**(!CK * !D * !SE * SI)**	0.00162	0.00178	0.00239
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00003	-0.00003
	SN	**(!CK * !D * !SE * SI)**	0.00004	0.00005	0.00005
	SN	**(!CK * !D * !SE * SI)**	0.00126	0.00144	0.00205
	SN	**(!CK * !D * !SE * !SI)**	0.00162	0.00178	0.00239
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00003	-0.00003
	SN	**(!CK * !D * !SE * !SI)**	0.00004	0.00005	0.00005
	SN	**(!CK * !D * !SE * !SI)**	0.00126	0.00144	0.00205

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7L	CK	(SE * SN)	0.00217	0.00235	0.00295
	CK	(SE * SN)	0.00000	0.00001	0.00002
	CK	(SE * SN)	-0.00002	-0.00001	-0.00001
	CK	(SE * SN)	0.00261	0.00278	0.00339
	CK	(!SE * SN)	0.00217	0.00235	0.00294
	CK	(!SE * SN)	0.00000	0.00002	0.00003
	CK	(!SE * SN)	-0.00002	-0.00001	0.00001
	CK	(!SE * SN)	0.00259	0.00278	0.00339

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7L	CK	(SE * SN)	0.00217	0.00235	0.00295
	CK	(SE * SN)	0.00000	0.00001	0.00004
	CK	(SE * SN)	-0.00001	-0.00001	0.00000
	CK	(SE * SN)	0.00260	0.00278	0.00340
	CK	(!SE * SN)	0.00217	0.00235	0.00295
	CK	(!SE * SN)	0.00000	0.00002	0.00004
	CK	(!SE * SN)	-0.00001	-0.00001	0.00002
	CK	(!SE * SN)	0.00260	0.00278	0.00340

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00215	0.00233	0.00293
	CK	**(SE * SN)**	-0.00002	-0.00001	0.00000
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00252	0.00270	0.00330
	CK	**(!SE * SN)**	0.00215	0.00233	0.00293
	CK	**(!SE * SN)**	-0.00003	-0.00001	0.00000
	CK	**(!SE * SN)**	0.00001	0.00001	0.00003
	CK	**(!SE * SN)**	0.00251	0.00270	0.00330
	SN	**(CK * D * SE * SI)**	0.00223	0.00240	0.00315
	SN	**(CK * D * SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(CK * D * SE * SI)**	-0.00001	0.00002	0.00005
	SN	**(CK * D * SE * SI)**	0.00193	0.00211	0.00287
	SN	**(CK * D * SE * !SI)**	0.00224	0.00242	0.00319
	SN	**(CK * D * SE * !SI)**	-0.00003	-0.00001	0.00002
	SN	**(CK * D * SE * !SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00196	0.00213	0.00289
	SN	**(CK * D * !SE * SI)**	0.00223	0.00240	0.00315
	SN	**(CK * D * !SE * SI)**	-0.00003	-0.00001	0.00000
	SN	**(CK * D * !SE * SI)**	-0.00000	0.00002	0.00003
	SN	**(CK * D * !SE * SI)**	0.00194	0.00211	0.00287
	SN	**(CK * D * !SE * !SI)**	0.00223	0.00240	0.00315
	SN	**(CK * D * !SE * !SI)**	-0.00003	-0.00001	0.00000
	SN	**(CK * D * !SE * !SI)**	-0.00000	0.00002	0.00003
	SN	**(CK * D * !SE * !SI)**	0.00194	0.00211	0.00287
	SN	**(CK * !D * SE * SI)**	0.00223	0.00240	0.00315
	SN	**(CK * !D * SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(CK * !D * SE * SI)**	-0.00000	0.00002	0.00005
	SN	**(CK * !D * SE * SI)**	0.00193	0.00211	0.00287
	SN	**(CK * !D * SE * !SI)**	0.00224	0.00242	0.00319
	SN	**(CK * !D * SE * !SI)**	-0.00003	-0.00001	0.00002
	SN	**(CK * !D * SE * !SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00196	0.00213	0.00289
	SN	**(CK * !D * !SE * SI)**	0.00225	0.00242	0.00318
	SN	**(CK * !D * !SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * !SE * SI)**	-0.00000	0.00002	0.00004
SDFFSX1H7L	**SN**	**(CK * !D * !SE * SI)**	0.00197	0.00213	0.00290
	SN	**(CK * !D * !SE * !SI)**	0.00225	0.00242	0.00318
	SN	**(CK * !D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * !SE * !SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00197	0.00213	0.00290
	SN	**(!CK * D * SE * SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * D * SE * SI)**	-0.00005	-0.00003	-0.00002
	SN	**(!CK * D * SE * SI)**	0.00002	0.00004	0.00005
	SN	**(!CK * D * SE * SI)**	0.00124	0.00141	0.00203
	SN	**(!CK * D * SE * !SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00003	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * SE * !SI)**	0.00128	0.00143	0.00205
	SN	**(!CK * D * !SE * SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CK * D * !SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00124	0.00141	0.00203
	SN	**(!CK * D * !SE * !SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CK * D * !SE * !SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00124	0.00141	0.00203
	SN	**(!CK * !D * SE * SI)**	0.00157	0.00172	0.00234
	SN	**(!CK * !D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CK * !D * SE * SI)**	0.00002	0.00004	0.00005
	SN	**(!CK * !D * SE * SI)**	0.00124	0.00141	0.00203
	SN	**(!CK * !D * SE * !SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * SE * !SI)**	0.00128	0.00143	0.00205
	SN	**(!CK * !D * !SE * SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * !D * !SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * !SE * SI)**	0.00128	0.00143	0.00205
	SN	**(!CK * !D * !SE * !SI)**	0.00162	0.00177	0.00239
	SN	**(!CK * !D * !SE * !SI)**	-0.00004	-0.00003	-0.00003
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * !SE * !SI)**	0.00128	0.00143	0.00205

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00326	0.00354	0.00456
	0.00000	0.00001	0.00003
	0.00002	0.00003	0.00005
	0.00401	0.00428	0.00530

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00403	0.00442	0.00577
	-0.00002	-0.00001	0.00000
	-0.00001	0.00000	0.00001
	0.00321	0.00361	0.00496

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00146	0.00163	0.00226
	0.00009	0.00009	0.00010
	-0.00010	-0.00009	-0.00009
	0.00242	0.00259	0.00321

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00263	0.00283	0.00356
	-0.00010	-0.00009	-0.00008
	0.00009	0.00010	0.00010
	0.00167	0.00187	0.00260

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00113	0.00172	0.00377
	0.00009	0.00009	0.00010
	-0.00009	-0.00009	-0.00007
	0.00273	0.00333	0.00537

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00319	0.00385	0.00610
	-0.00009	-0.00009	-0.00007
	0.00007	0.00009	0.00009
	0.00159	0.00225	0.00450

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00125	0.00141	0.00199
	0.00008	0.00009	0.00010
	-0.00009	-0.00009	-0.00009
	0.00219	0.00234	0.00292

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00284	0.00302	0.00367
	-0.00010	-0.00009	-0.00008
	0.00009	0.00009	0.00009
	0.00191	0.00208	0.00274

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00043	0.00044	0.00044
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00113	0.00113	0.00113

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7L	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00027

SDFFSX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX2H7L	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX2H7L	0.00118	0.00080	0.00191	0.00077	0.00075	0.08606	0.08601

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX2H7L	0.00000	7.40495	10.07410

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7L	CK->Q (RR)	(SE * SN)	0.09444	0.22866	0.55375
	CK->Q (RR)	(!SE * SN)	0.09446	0.22868	0.55332
	SN->Q (FR)	(CK * D * SE * SI)	0.08981	0.25258	0.65584
	SN->Q (FR)	(CK * D * SE * !SI)	0.08980	0.25258	0.65584
	SN->Q (FR)	(CK * D * !SE * SI)	0.08974	0.25258	0.65584
	SN->Q (FR)	(CK * D * !SE * !SI)	0.08974	0.25258	0.65584
	SN->Q (FR)	(CK * !D * SE * SI)	0.08981	0.25258	0.65584
	SN->Q (FR)	(CK * !D * SE * !SI)	0.08981	0.25258	0.65596
	SN->Q (FR)	(CK * !D * !SE * SI)	0.08981	0.25258	0.65584
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.08980	0.25258	0.65584
	SN->Q (FR)	(!CK * D * SE * SI)	0.07771	0.23489	0.62196
	SN->Q (FR)	(!CK * D * SE * !SI)	0.08252	0.24238	0.63589
	SN->Q (FR)	(!CK * D * !SE * SI)	0.07766	0.23489	0.62185
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.07766	0.23490	0.62228
	SN->Q (FR)	(!CK * !D * SE * SI)	0.07771	0.23489	0.62186
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.08252	0.24238	0.63589
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.08253	0.24243	0.63617
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.08253	0.24242	0.63586

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7L	CK->Q (RF)	(SE * SN)	0.10731	0.20949	0.43981
	CK->Q (RF)	(!SE * SN)	0.10732	0.20949	0.43987

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7L	CK->QN (RR)	(SE * SN)	0.08100	0.22438	0.55161
	CK->QN (RR)	(!SE * SN)	0.08101	0.22439	0.55162

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7L	CK->QN (RF)	(SE * SN)	0.06592	0.17733	0.41738
	CK->QN (RF)	(!SE * SN)	0.06594	0.17735	0.41724
	SN->QN (FF)	(CK * D * SE * SI)	0.05849	0.20306	0.53042
	SN->QN (FF)	(CK * D * SE * !SI)	0.05849	0.20306	0.53042
	SN->QN (FF)	(CK * D * !SE * SI)	0.05843	0.20306	0.53042
	SN->QN (FF)	(CK * D * !SE * !SI)	0.05843	0.20307	0.53042
	SN->QN (FF)	(CK * !D * SE * SI)	0.05849	0.20307	0.53042
	SN->QN (FF)	(CK * !D * SE * !SI)	0.05849	0.20306	0.53042
	SN->QN (FF)	(CK * !D * !SE * SI)	0.05849	0.20306	0.53042
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.05850	0.20306	0.53042
	SN->QN (FF)	(!CK * D * SE * SI)	0.04915	0.18136	0.48558
	SN->QN (FF)	(!CK * D * SE * !SI)	0.05337	0.18867	0.49826
	SN->QN (FF)	(!CK * D * !SE * SI)	0.04911	0.18135	0.48539
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.04911	0.18135	0.48539
	SN->QN (FF)	(!CK * !D * SE * SI)	0.04915	0.18136	0.48558
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.05337	0.18866	0.49826
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.05337	0.18870	0.49826
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.05337	0.18870	0.49826

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	**hold**	**CK (R)**	-0.07041	-0.03158	-0.01034
	setup	**CK (R)**	0.04142	0.06924	0.11456

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	**hold**	**CK (R)**	-0.13996	-0.04727	0.01233
	setup	**CK (R)**	0.02847	0.09345	0.21044

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	**hold**	**CK (R)**	-0.03565	-0.01981	0.00009
	setup	**CK (R)**	0.04778	0.08137	0.12107

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	**hold**	**CK (R)**	-0.10939	-0.03414	0.02193
	setup	**CK (R)**	0.05328	0.09700	0.19559

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	hold	CK (R)	-0.08124	-0.03624	-0.01327
	setup	CK (R)	0.04390	0.07651	0.12704

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	hold	CK (R)	-0.14454	-0.05308	0.00517
	setup	CK (R)	0.03381	0.10047	0.21569

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7L	recovery	CK (R)	-0.07082	-0.00821	0.13094
	removal	CK (R)	0.06259	0.09696	0.15704

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX2H7L	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00224	0.00242	0.00303
	CK	**(SE * SN)**	-0.00004	-0.00002	0.00000
	CK	**(SE * SN)**	-0.00001	0.00001	0.00004
	CK	**(SE * SN)**	0.00260	0.00278	0.00340
	CK	**(!SE * SN)**	0.00224	0.00242	0.00303
	CK	**(!SE * SN)**	-0.00002	-0.00002	0.00000
	CK	**(!SE * SN)**	0.00001	0.00001	0.00004
	CK	**(!SE * SN)**	0.00259	0.00278	0.00339
	SN	**(CK * D * SE * SI)**	0.00232	0.00250	0.00333
	SN	**(CK * D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * D * SE * SI)**	0.00001	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00203	0.00221	0.00304
	SN	**(CK * D * SE * !SI)**	0.00235	0.00253	0.00336
	SN	**(CK * D * SE * !SI)**	-0.00004	-0.00002	-0.00001
	SN	**(CK * D * SE * !SI)**	0.00002	0.00002	0.00002
	SN	**(CK * D * SE * !SI)**	0.00206	0.00224	0.00307
	SN	**(CK * D * !SE * SI)**	0.00232	0.00250	0.00333
	SN	**(CK * D * !SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * D * !SE * SI)**	-0.00004	0.00002	0.00003
	SN	**(CK * D * !SE * SI)**	0.00203	0.00221	0.00304
	SN	**(CK * D * !SE * !SI)**	0.00233	0.00250	0.00333
	SN	**(CK * D * !SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * D * !SE * !SI)**	-0.00001	0.00002	0.00003
	SN	**(CK * D * !SE * !SI)**	0.00203	0.00221	0.00304
	SN	**(CK * !D * SE * SI)**	0.00232	0.00250	0.00333
	SN	**(CK * !D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * !D * SE * SI)**	0.00001	0.00002	0.00002
	SN	**(CK * !D * SE * SI)**	0.00203	0.00221	0.00304
	SN	**(CK * !D * SE * !SI)**	0.00235	0.00253	0.00336
	SN	**(CK * !D * SE * !SI)**	-0.00004	-0.00002	-0.00001
	SN	**(CK * !D * SE * !SI)**	0.00001	0.00002	0.00002
	SN	**(CK * !D * SE * !SI)**	0.00206	0.00224	0.00307
	SN	**(CK * !D * !SE * SI)**	0.00235	0.00253	0.00336
	SN	**(CK * !D * !SE * SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * !D * !SE * SI)**	0.00002	0.00002	0.00002
SDFFSX2H7L	**SN**	**(CK * !D * !SE * SI)**	0.00206	0.00224	0.00307
	SN	**(CK * !D * !SE * !SI)**	0.00235	0.00253	0.00336
	SN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00002	0.00002
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00002	0.00002
	SN	**(CK * !D * !SE * !SI)**	0.00206	0.00224	0.00307
	SN	**(!CK * D * SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * D * SE * SI)**	0.00003	0.00004	0.00004
	SN	**(!CK * D * SE * SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * D * SE * !SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00003	-0.00003
	SN	**(!CK * D * SE * !SI)**	0.00002	0.00005	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00136	0.00152	0.00220
	SN	**(!CK * D * !SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * !SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00004	0.00004
	SN	**(!CK * D * !SE * SI)**	0.00133	0.00150	0.00217
	SN	**(!CK * D * !SE * !SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * !SE * !SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00004	0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00133	0.00150	0.00217
	SN	**(!CK * !D * SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * !D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CK * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * !D * SE * !SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * !D * SE * !SI)**	-0.00004	-0.00003	-0.00003
	SN	**(!CK * !D * SE * !SI)**	0.00002	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00136	0.00152	0.00219
	SN	**(!CK * !D * !SE * SI)**	0.00170	0.00187	0.00254
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00003	-0.00003
	SN	**(!CK * !D * !SE * SI)**	0.00004	0.00005	0.00005
	SN	**(!CK * !D * !SE * SI)**	0.00135	0.00153	0.00220
	SN	**(!CK * !D * !SE * !SI)**	0.00170	0.00186	0.00254
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * !D * !SE * !SI)**	0.00004	0.00005	0.00005
	SN	**(!CK * !D * !SE * !SI)**	0.00135	0.00152	0.00220

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7L	CK	(SE * SN)	0.00225	0.00244	0.00305
	CK	(SE * SN)	0.00000	0.00002	0.00004
	CK	(SE * SN)	-0.00003	-0.00001	0.00001
	CK	(SE * SN)	0.00268	0.00287	0.00349
	CK	(!SE * SN)	0.00226	0.00244	0.00305
	CK	(!SE * SN)	0.00000	0.00002	0.00003
	CK	(!SE * SN)	-0.00001	-0.00001	0.00001
	CK	(!SE * SN)	0.00268	0.00287	0.00349

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7L	CK	(SE * SN)	0.00227	0.00244	0.00306
	CK	(SE * SN)	0.00000	0.00002	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00269	0.00287	0.00351
	CK	(!SE * SN)	0.00227	0.00245	0.00306
	CK	(!SE * SN)	0.00000	0.00001	0.00004
	CK	(!SE * SN)	-0.00001	-0.00001	0.00000
	CK	(!SE * SN)	0.00269	0.00287	0.00351

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00222	0.00241	0.00303
	CK	**(SE * SN)**	-0.00002	-0.00001	0.00000
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00260	0.00278	0.00339
	CK	**(!SE * SN)**	0.00223	0.00241	0.00302
	CK	**(!SE * SN)**	-0.00002	-0.00001	0.00001
	CK	**(!SE * SN)**	0.00000	0.00001	0.00001
	CK	**(!SE * SN)**	0.00260	0.00278	0.00339
	SN	**(CK * D * SE * SI)**	0.00232	0.00250	0.00333
	SN	**(CK * D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * D * SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00203	0.00220	0.00304
	SN	**(CK * D * SE * !SI)**	0.00235	0.00253	0.00336
	SN	**(CK * D * SE * !SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00205	0.00223	0.00306
	SN	**(CK * D * !SE * SI)**	0.00231	0.00250	0.00333
	SN	**(CK * D * !SE * SI)**	-0.00003	-0.00001	0.00001
	SN	**(CK * D * !SE * SI)**	0.00001	0.00003	0.00036
	SN	**(CK * D * !SE * SI)**	0.00203	0.00220	0.00304
	SN	**(CK * D * !SE * !SI)**	0.00232	0.00250	0.00333
	SN	**(CK * D * !SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * D * !SE * !SI)**	0.00000	0.00003	0.00036
	SN	**(CK * D * !SE * !SI)**	0.00203	0.00220	0.00304
	SN	**(CK * !D * SE * SI)**	0.00232	0.00250	0.00333
	SN	**(CK * !D * SE * SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * !D * SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * SI)**	0.00203	0.00220	0.00304
	SN	**(CK * !D * SE * !SI)**	0.00233	0.00253	0.00336
	SN	**(CK * !D * SE * !SI)**	-0.00004	-0.00001	0.00001
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00205	0.00223	0.00306
	SN	**(CK * !D * !SE * SI)**	0.00235	0.00253	0.00336
	SN	**(CK * !D * !SE * SI)**	-0.00004	-0.00002	-0.00000
	SN	**(CK * !D * !SE * SI)**	-0.00000	0.00002	0.00003
	SN	**(CK * !D * !SE * SI)**	0.00205	0.00223	0.00306
SDFFSX2H7L	**SN**	**(CK * !D * !SE * !SI)**	0.00235	0.00253	0.00336
	SN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00205	0.00223	0.00306
	SN	**(!CK * D * SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * SE * SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * D * SE * !SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00001	0.00005	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00136	0.00152	0.00219
	SN	**(!CK * D * !SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * !SE * SI)**	-0.00003	-0.00003	-0.00000
	SN	**(!CK * D * !SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * D * !SE * !SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * D * !SE * !SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * D * !SE * !SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * !D * SE * SI)**	0.00165	0.00181	0.00248
	SN	**(!CK * !D * SE * SI)**	-0.00003	-0.00003	-0.00001
	SN	**(!CK * !D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00133	0.00149	0.00217
	SN	**(!CK * !D * SE * !SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * !D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CK * !D * SE * !SI)**	0.00001	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00136	0.00152	0.00219
	SN	**(!CK * !D * !SE * SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00003	-0.00002
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * !SE * SI)**	0.00136	0.00152	0.00219
	SN	**(!CK * !D * !SE * !SI)**	0.00170	0.00186	0.00253
	SN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00002
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * !SE * !SI)**	0.00136	0.00152	0.00219

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00330	0.00357	0.00459
	0.00000	0.00001	0.00002
	0.00004	0.00004	0.00005
	0.00401	0.00428	0.00531

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00401	0.00441	0.00576
	-0.00001	-0.00000	0.00000
	-0.00002	-0.00001	-0.00000
	0.00324	0.00364	0.00497

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00149	0.00166	0.00230
	0.00008	0.00009	0.00009
	-0.00009	-0.00009	-0.00009
	0.00243	0.00260	0.00324

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00262	0.00282	0.00355
	-0.00009	-0.00009	-0.00008
	0.00009	0.00009	0.00010
	0.00167	0.00188	0.00261

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00247	0.00281	0.00399
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00007
	0.00326	0.00359	0.00477

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00318	0.00384	0.00610
	0.00000	0.00000	0.00000
	0.00007	0.00009	0.00009
	0.00159	0.00226	0.00451

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00129	0.00144	0.00203
	0.00008	0.00008	0.00009
	-0.00009	-0.00009	-0.00008
	0.00221	0.00236	0.00295

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00283	0.00301	0.00367
	-0.00009	-0.00008	-0.00008
	0.00008	0.00009	0.00009
	0.00191	0.00209	0.00275

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00043	0.00044	0.00044
	0.00003	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00113	0.00114	0.00114

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7L	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00030	-0.00028	-0.00026

SDFFTRQX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI! !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX0P5H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX0P5H7L	0.00086	0.00093	0.00091	0.00213	0.00074	0.06365

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX0P5H7L	0.00000	7.42443	10.96160

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7L	**CK->Q (RR)**	0.07846	0.21787	0.54453

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7L	**CK->Q (RF)**	0.06461	0.17552	0.41585

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	**hold**	**CK (R)**	-0.05790	-0.02051	0.01341
	setup	**CK (R)**	0.01003	0.04980	0.09574

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	**hold**	**CK (R)**	-0.15777	-0.07424	-0.03144
	setup	**CK (R)**	0.04879	0.09455	0.17892

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	**hold**	**CK (R)**	-0.06009	-0.01996	0.01675
	setup	**CK (R)**	0.00676	0.04939	0.09603

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	**hold**	**CK (R)**	-0.14637	-0.07026	-0.03133
	setup	**CK (R)**	0.04623	0.09080	0.17054

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	hold	CK (R)	-0.03166	-0.00304	0.02839
	setup	CK (R)	0.05720	0.07579	0.09694

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	hold	CK (R)	-0.10915	-0.03264	0.01797
	setup	CK (R)	0.04298	0.08336	0.16279

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	hold	CK (R)	-0.04615	-0.01098	0.02307
	setup	CK (R)	0.00204	0.03938	0.08116

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7L	hold	CK (R)	-0.16276	-0.07666	-0.03681
	setup	CK (R)	0.05272	0.09647	0.18242

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7L	CK	0.00354	0.00390	0.00514
	CK	-0.00002	0.00000	0.00004
	CK	-0.00001	-0.00000	0.00003
	CK	0.00417	0.00452	0.00571

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7L	CK	0.00339	0.00373	0.00498
	CK	0.00000	0.00000	0.00002
	CK	0.00000	0.00000	0.00001
	CK	0.00392	0.00425	0.00550

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00164	0.00194	0.00300
	-0.00002	-0.00001	0.00000
	0.00000	0.00000	0.00001
	0.00222	0.00251	0.00357

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00361	0.00401	0.00540
	0.00004	0.00005	0.00006
	-0.00001	-0.00000	0.00000
	0.00310	0.00351	0.00489

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00160	0.00180	0.00260
	0.00008	0.00009	0.00010
	-0.00012	-0.00011	-0.00010
	0.00304	0.00326	0.00406

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00307	0.00337	0.00443
	-0.00009	-0.00008	-0.00008
	0.00010	0.00011	0.00012
	0.00162	0.00192	0.00299

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00160	0.00187	0.00286
	0.00007	0.00008	0.00010
	-0.00006	-0.00006	-0.00005
	0.00282	0.00310	0.00410

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00291	0.00324	0.00440
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00167	0.00200	0.00315

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00139	0.00198	0.00405
	0.00005	0.00006	0.00008
	-0.00003	-0.00003	-0.00001
	0.00307	0.00368	0.00576

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00313	0.00381	0.00610
	-0.00006	-0.00005	-0.00005
	0.00001	0.00003	0.00004
	0.00141	0.00211	0.00439

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00139	0.00155	0.00217
	0.00004	0.00005	0.00005
	-0.00005	-0.00005	-0.00004
	0.00233	0.00250	0.00313

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7L	0.00278	0.00297	0.00366
	-0.00005	-0.00005	-0.00004
	0.00004	0.00005	0.00006
	0.00183	0.00202	0.00271

SDFFTRQX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX1H7L	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX1H7L	0.00096	0.00088	0.00090	0.00183	0.00074	0.07476

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX1H7L	0.00000	7.64813	11.34740

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7L	**CK->Q (RR)**	0.07207	0.20857	0.52896

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7L	**CK->Q (RF)**	0.05970	0.16787	0.40217

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	**hold**	**CK (R)**	-0.06746	-0.02876	0.00034
	setup	**CK (R)**	0.01905	0.05515	0.10261

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	**hold**	**CK (R)**	-0.16187	-0.07647	-0.03469
	setup	**CK (R)**	0.05178	0.09683	0.18607

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	**hold**	**CK (R)**	-0.06752	-0.02803	0.00439
	setup	**CK (R)**	0.01651	0.05482	0.10474

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	**hold**	**CK (R)**	-0.15359	-0.07221	-0.03283
	setup	**CK (R)**	0.05015	0.09292	0.17522

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	hold	CK (R)	-0.04260	-0.01206	0.01441
	setup	CK (R)	0.06378	0.08356	0.10681

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	hold	CK (R)	-0.11946	-0.04331	0.00398
	setup	CK (R)	0.04238	0.08618	0.16989

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	hold	CK (R)	-0.06082	-0.02120	0.00965
	setup	CK (R)	0.01101	0.04750	0.09471

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7L	hold	CK (R)	-0.17500	-0.08243	-0.04018
	setup	CK (R)	0.05968	0.10304	0.19724

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7L	CK	0.00318	0.00354	0.00476
	CK	-0.00001	-0.00000	0.00001
	CK	-0.00001	-0.00000	0.00000
	CK	0.00388	0.00423	0.00544

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7L	CK	0.00317	0.00354	0.00482
	CK	-0.00001	0.00000	0.00003
	CK	0.00000	0.00000	0.00001
	CK	0.00388	0.00422	0.00550

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00151	0.00181	0.00289
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00222	0.00251	0.00358

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00347	0.00387	0.00526
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00285	0.00326	0.00464

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00184	0.00203	0.00282
	0.00007	0.00008	0.00010
	-0.00011	-0.00011	-0.00009
	0.00318	0.00340	0.00419

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00302	0.00333	0.00438
	-0.00009	-0.00008	-0.00007
	0.00009	0.00011	0.00011
	0.00167	0.00197	0.00303

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00180	0.00208	0.00306
	0.00008	0.00009	0.00010
	-0.00006	-0.00006	-0.00005
	0.00302	0.00328	0.00426

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00288	0.00320	0.00435
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00168	0.00200	0.00314

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00256	0.00293	0.00422
	0.00000	0.00000	0.00000
	-0.00001	0.00000	0.00002
	0.00340	0.00376	0.00506

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00305	0.00372	0.00599
	-0.00000	-0.00000	0.00000
	0.00001	0.00003	0.00004
	0.00152	0.00219	0.00445

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00154	0.00171	0.00231
	0.00004	0.00005	0.00006
	-0.00005	-0.00004	-0.00004
	0.00244	0.00260	0.00321

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7L	0.00292	0.00310	0.00377
	-0.00006	-0.00005	-0.00004
	0.00004	0.00004	0.00005
	0.00203	0.00221	0.00288

SDFFTRQX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX2H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX2H7L	0.00104	0.00088	0.00090	0.00192	0.00075	0.09487

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX2H7L	0.00000	8.61617	12.85500

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7L	**CK->Q (RR)**	0.06785	0.20394	0.52314

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7L	**CK->Q (RF)**	0.05885	0.16870	0.40581

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	**hold**	**CK (R)**	-0.07022	-0.03207	-0.00088
	setup	**CK (R)**	0.02467	0.05841	0.10537

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	**hold**	**CK (R)**	-0.16843	-0.07824	-0.03509
	setup	**CK (R)**	0.05472	0.09905	0.18780

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	**hold**	**CK (R)**	-0.06805	-0.03115	-0.00299
	setup	**CK (R)**	0.02339	0.05820	0.10427

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	**hold**	**CK (R)**	-0.15842	-0.07390	-0.03509
	setup	**CK (R)**	0.05140	0.09464	0.17956

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	hold	CK (R)	-0.04267	-0.01546	0.00835
	setup	CK (R)	0.06646	0.08252	0.10308

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	hold	CK (R)	-0.11800	-0.04356	0.00024
	setup	CK (R)	0.04390	0.08735	0.17349

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	hold	CK (R)	-0.05994	-0.02440	0.00464
	setup	CK (R)	0.01503	0.05056	0.09721

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7L	hold	CK (R)	-0.17767	-0.08474	-0.04308
	setup	CK (R)	0.06098	0.10490	0.19780

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7L	CK	0.00341	0.00387	0.00532
	CK	-0.00002	0.00000	0.00005
	CK	0.00000	0.00000	0.00003
	CK	0.00416	0.00461	0.00602

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7L	CK	0.00358	0.00399	0.00552
	CK	-0.00005	0.00000	0.00004
	CK	-0.00001	-0.00000	0.00000
	CK	0.00432	0.00473	0.00626

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00158	0.00194	0.00322
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00232	0.00269	0.00396

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00364	0.00411	0.00571
	0.00004	0.00005	0.00006
	-0.00001	-0.00000	0.00000
	0.00296	0.00343	0.00504

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00192	0.00212	0.00292
	0.00007	0.00008	0.00009
	-0.00012	-0.00011	-0.00009
	0.00327	0.00348	0.00427

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00310	0.00341	0.00448
	-0.00008	-0.00008	-0.00007
	0.00009	0.00011	0.00012
	0.00175	0.00206	0.00313

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00190	0.00217	0.00315
	0.00007	0.00008	0.00009
	-0.00007	-0.00006	-0.00006
	0.00310	0.00336	0.00435

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00296	0.00329	0.00444
	-0.00008	-0.00008	-0.00007
	0.00006	0.00006	0.00007
	0.00176	0.00209	0.00324

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00180	0.00245	0.00469
	0.00005	0.00006	0.00007
	-0.00004	-0.00003	-0.00001
	0.00340	0.00404	0.00628

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00320	0.00395	0.00651
	-0.00007	-0.00005	-0.00004
	0.00001	0.00003	0.00004
	0.00161	0.00237	0.00492

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00164	0.00180	0.00241
	0.00004	0.00005	0.00006
	-0.00005	-0.00005	-0.00003
	0.00252	0.00269	0.00329

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7L	0.00300	0.00318	0.00386
	-0.00006	-0.00005	-0.00004
	0.00003	0.00005	0.00006
	0.00210	0.00229	0.00297

SDFFTRQX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX3H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX3H7L	0.00106	0.00096	0.00098	0.00198	0.00072	0.13322

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX3H7L	0.00000	9.04167	13.51400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7L	**CK->Q (RR)**	0.06642	0.20291	0.52149

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7L	**CK->Q (RF)**	0.05840	0.16857	0.40342

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	**hold**	**CK (R)**	-0.06520	-0.02929	-0.00156
	setup	**CK (R)**	0.01856	0.05536	0.10012

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	**hold**	**CK (R)**	-0.15576	-0.07270	-0.03118
	setup	**CK (R)**	0.04900	0.09245	0.17896

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	**hold**	**CK (R)**	-0.06480	-0.02861	0.00172
	setup	**CK (R)**	0.01901	0.05525	0.10142

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	**hold**	**CK (R)**	-0.14937	-0.06858	-0.03058
	setup	**CK (R)**	0.04599	0.08858	0.17053

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	hold	CK (R)	-0.05078	-0.01731	0.01001
	setup	CK (R)	0.06934	0.08581	0.10758

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	hold	CK (R)	-0.10578	-0.03999	0.00155
	setup	CK (R)	0.04074	0.08025	0.15599

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	hold	CK (R)	-0.05752	-0.02385	0.00555
	setup	CK (R)	0.01329	0.04979	0.09393

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7L	hold	CK (R)	-0.18639	-0.08882	-0.04541
	setup	CK (R)	0.06374	0.10937	0.20958

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7L	CK	0.00367	0.00410	0.00556
	CK	-0.00005	-0.00001	0.00003
	CK	-0.00000	0.00000	0.00005
	CK	0.00439	0.00482	0.00624

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7L	CK	0.00373	0.00416	0.00578
	CK	0.00000	0.00001	0.00007
	CK	-0.00002	-0.00000	0.00000
	CK	0.00453	0.00495	0.00657

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00158	0.00194	0.00320
	-0.00002	-0.00001	-0.00001
	0.00000	0.00000	0.00001
	0.00232	0.00269	0.00396

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00370	0.00417	0.00578
	0.00004	0.00005	0.00005
	-0.00001	-0.00000	0.00000
	0.00302	0.00349	0.00510

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00195	0.00218	0.00309
	0.00009	0.00010	0.00011
	-0.00013	-0.00012	-0.00010
	0.00345	0.00368	0.00459

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00330	0.00365	0.00485
	-0.00010	-0.00009	-0.00009
	0.00010	0.00012	0.00013
	0.00181	0.00215	0.00336

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00193	0.00224	0.00336
	0.00009	0.00010	0.00011
	-0.00007	-0.00006	-0.00006
	0.00325	0.00356	0.00469

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00314	0.00351	0.00483
	-0.00011	-0.00010	-0.00009
	0.00006	0.00007	0.00008
	0.00181	0.00218	0.00350

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00270	0.00312	0.00461
	0.00000	0.00000	0.00000
	-0.00001	0.00001	0.00003
	0.00359	0.00402	0.00552

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00330	0.00407	0.00666
	-0.00000	-0.00000	0.00000
	0.00003	0.00004	0.00004
	0.00164	0.00242	0.00501

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00169	0.00185	0.00243
	0.00004	0.00005	0.00006
	-0.00005	-0.00004	-0.00003
	0.00257	0.00273	0.00331

Passive power(pJ) for SI falling :

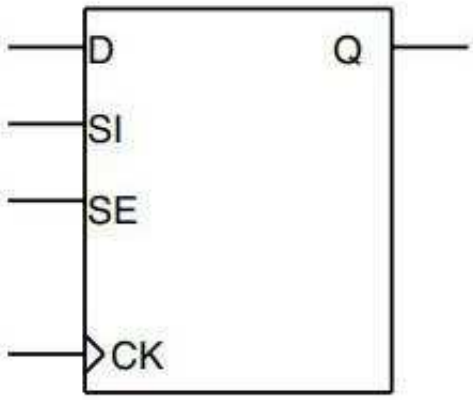
Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7L	0.00305	0.00323	0.00388
	-0.00005	-0.00005	-0.00004
	0.00003	0.00005	0.00006
	0.00216	0.00234	0.00300

SDFFX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX0P5H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX0P5H7L	0.00101	0.00072	0.00198	0.00078	0.06293	0.06308

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX0P5H7L	0.00000	7.41005	10.73690

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7L	CK->Q (RR)	SE	0.09051	0.22744	0.55027
	CK->Q (RR)	!SE	0.09051	0.22746	0.55011

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7L	CK->Q (RF)	SE	0.06443	0.17167	0.40645
	CK->Q (RF)	!SE	0.06444	0.17170	0.40643

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7L	CK->QN (RR)	SE	0.09161	0.22437	0.54823
	CK->QN (RR)	!SE	0.09161	0.22439	0.54821

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7L	CK->QN (RF)	SE	0.11153	0.21132	0.43866
	CK->QN (RF)	!SE	0.11154	0.21133	0.43866

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX0P5H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	**hold**	**CK (R)**	-0.08501	-0.04535	-0.02303
	setup	**CK (R)**	0.02961	0.05586	0.09577

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	**hold**	**CK (R)**	-0.17251	-0.06075	0.00912
	setup	**CK (R)**	0.03057	0.08918	0.19512

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	**hold**	**CK (R)**	-0.04994	-0.03295	-0.01407
	setup	**CK (R)**	0.05336	0.07975	0.10776

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	**hold**	**CK (R)**	-0.14090	-0.04592	0.02126
	setup	**CK (R)**	0.04680	0.08704	0.17594

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	hold	CK (R)	-0.08812	-0.04753	-0.02529
	setup	CK (R)	0.03118	0.05796	0.09982

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7L	hold	CK (R)	-0.18346	-0.07108	-0.00204
	setup	CK (R)	0.04259	0.09998	0.21120

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7L	CK	SE	0.00196	0.00215	0.00271
	CK	SE	0.00001	0.00003	0.00006
	CK	SE	-0.00003	-0.00002	-0.00001
	CK	SE	0.00235	0.00253	0.00310
	CK	!SE	0.00197	0.00215	0.00271
	CK	!SE	0.00001	0.00003	0.00006
	CK	!SE	-0.00004	-0.00003	-0.00001
	CK	!SE	0.00235	0.00253	0.00310

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7L	CK	SE	0.00197	0.00217	0.00278
	CK	SE	-0.00003	-0.00002	-0.00000
	CK	SE	0.00002	0.00004	0.00006
	CK	SE	0.00224	0.00243	0.00304
	CK	!SE	0.00199	0.00217	0.00279
	CK	!SE	-0.00004	-0.00002	-0.00000
	CK	!SE	0.00002	0.00004	0.00005
	CK	!SE	0.00225	0.00243	0.00307

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7L	CK	SE	0.00197	0.00217	0.00279
	CK	SE	-0.00004	-0.00002	0.00000
	CK	SE	0.00002	0.00004	0.00004
	CK	SE	0.00225	0.00243	0.00307
	CK	!SE	0.00040	0.00214	0.00279
	CK	!SE	-0.00003	0.00004	0.00264
	CK	!SE	0.00003	0.00004	0.00008
	CK	!SE	0.00225	0.00245	0.00325

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7L	CK	SE	0.00197	0.00214	0.00270
	CK	SE	0.00001	0.00003	0.00005
	CK	SE	-0.00004	-0.00003	-0.00001
	CK	SE	0.00235	0.00253	0.00308
	CK	!SE	0.00197	0.00215	0.00270
	CK	!SE	0.00002	0.00003	0.00005
	CK	!SE	-0.00004	-0.00003	-0.00001
	CK	!SE	0.00235	0.00253	0.00308

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00179	0.00209	0.00315
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00003
	0.00242	0.00272	0.00378

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00405	0.00445	0.00577
	-0.00001	-0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00340	0.00379	0.00512

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00168	0.00186	0.00251
	0.00011	0.00011	0.00012
	-0.00013	-0.00012	-0.00012
	0.00265	0.00282	0.00348

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00238	0.00258	0.00334
	-0.00012	-0.00011	-0.00011
	0.00012	0.00012	0.00013
	0.00140	0.00161	0.00236

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00245	0.00277	0.00392
	0.00000	0.00000	0.00000
	0.00007	0.00008	0.00010
	0.00326	0.00357	0.00471

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00293	0.00362	0.00594
	0.00000	0.00000	0.00000
	0.00012	0.00012	0.00013
	0.00131	0.00199	0.00432

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00134	0.00150	0.00210
	0.00010	0.00010	0.00011
	-0.00012	-0.00012	-0.00012
	0.00226	0.00242	0.00302

Passive power(pJ) for SI falling :

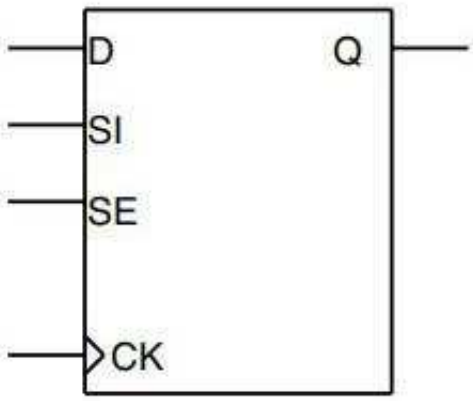
Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7L	0.00270	0.00288	0.00356
	-0.00011	-0.00010	-0.00010
	0.00012	0.00012	0.00012
	0.00176	0.00195	0.00264

SDFFX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX1H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX1H7L	0.00102	0.00072	0.00203	0.00079	0.07460	0.07473

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX1H7L	0.00000	7.70278	11.07560

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7L	CK->Q (RR)	SE	0.08878	0.22569	0.54855
	CK->Q (RR)	!SE	0.08879	0.22568	0.54854

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7L	CK->Q (RF)	SE	0.06438	0.17225	0.40855
	CK->Q (RF)	!SE	0.06439	0.17226	0.40859

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7L	CK->QN (RR)	SE	0.09118	0.22413	0.54822
	CK->QN (RR)	!SE	0.09119	0.22414	0.54821

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7L	CK->QN (RF)	SE	0.11008	0.21069	0.43961
	CK->QN (RF)	!SE	0.11009	0.21069	0.43967

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX1H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	**hold**	**CK (R)**	-0.08215	-0.04430	-0.01970
	setup	**CK (R)**	0.02949	0.05488	0.09360

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	**hold**	**CK (R)**	-0.17222	-0.05999	0.00979
	setup	**CK (R)**	0.03056	0.08885	0.19500

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	**hold**	**CK (R)**	-0.04844	-0.03192	-0.01333
	setup	**CK (R)**	0.05229	0.07948	0.10781

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	**hold**	**CK (R)**	-0.13967	-0.04572	0.02152
	setup	**CK (R)**	0.04686	0.08654	0.17269

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	hold	CK (R)	-0.08869	-0.04626	-0.02252
	setup	CK (R)	0.03118	0.05706	0.09802

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7L	hold	CK (R)	-0.18316	-0.07071	-0.00145
	setup	CK (R)	0.04126	0.09936	0.21144

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7L	CK	SE	0.00206	0.00224	0.00280
	CK	SE	0.00001	0.00004	0.00006
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00246	0.00263	0.00320
	CK	!SE	0.00205	0.00224	0.00280
	CK	!SE	0.00000	0.00004	0.00006
	CK	!SE	-0.00004	-0.00003	-0.00000
	CK	!SE	0.00245	0.00263	0.00320

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7L	CK	SE	0.00208	0.00227	0.00289
	CK	SE	-0.00004	-0.00002	-0.00001
	CK	SE	0.00002	0.00004	0.00005
	CK	SE	0.00236	0.00254	0.00317
	CK	!SE	0.00209	0.00227	0.00289
	CK	!SE	-0.00003	-0.00002	-0.00000
	CK	!SE	0.00002	0.00004	0.00006
	CK	!SE	0.00234	0.00254	0.00316

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7L	CK	SE	0.00207	0.00227	0.00290
	CK	SE	-0.00004	-0.00002	0.00001
	CK	SE	0.00004	0.00004	0.00006
	CK	SE	0.00235	0.00254	0.00318
	CK	!SE	0.00208	0.00227	0.00290
	CK	!SE	-0.00004	-0.00002	0.00001
	CK	!SE	0.00004	0.00004	0.00004
	CK	!SE	0.00235	0.00254	0.00318

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7L	CK	SE	0.00207	0.00224	0.00279
	CK	SE	0.00003	0.00003	0.00004
	CK	SE	-0.00002	-0.00003	-0.00002
	CK	SE	0.00246	0.00262	0.00319
	CK	!SE	0.00207	0.00224	0.00279
	CK	!SE	0.00003	0.00004	0.00004
	CK	!SE	-0.00003	-0.00003	-0.00002
	CK	!SE	0.00246	0.00263	0.00320

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00184	0.00213	0.00318
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00247	0.00277	0.00382

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00410	0.00449	0.00582
	-0.00001	-0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00343	0.00382	0.00515

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00175	0.00193	0.00259
	0.00010	0.00011	0.00011
	-0.00012	-0.00012	-0.00012
	0.00272	0.00290	0.00357

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00236	0.00257	0.00334
	-0.00011	-0.00011	-0.00010
	0.00012	0.00012	0.00012
	0.00139	0.00160	0.00236

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00243	0.00275	0.00390
	0.00000	0.00000	0.00000
	0.00006	0.00008	0.00010
	0.00326	0.00358	0.00471

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00293	0.00363	0.00597
	0.00000	0.00000	0.00000
	0.00010	0.00012	0.00013
	0.00127	0.00197	0.00431

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00141	0.00157	0.00218
	0.00010	0.00010	0.00010
	-0.00012	-0.00012	-0.00012
	0.00235	0.00251	0.00312

Passive power(pJ) for SI falling :

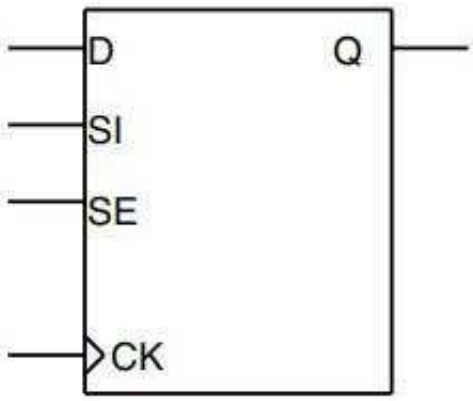
Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7L	0.00269	0.00287	0.00357
	-0.00010	-0.00010	-0.00010
	0.00012	0.00012	0.00012
	0.00174	0.00193	0.00263

SDFFX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX2H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX2H7L	0.00111	0.00071	0.00211	0.00080	0.09437	0.09542

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX2H7L	0.00000	9.16897	12.63770

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7L	CK->Q (RR)	SE	0.08455	0.22105	0.54156
	CK->Q (RR)	!SE	0.08454	0.22106	0.54151

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7L	CK->Q (RF)	SE	0.06421	0.17367	0.41195
	CK->Q (RF)	!SE	0.06424	0.17368	0.41211

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7L	CK->QN (RR)	SE	0.09160	0.22371	0.54792
	CK->QN (RR)	!SE	0.09163	0.22370	0.54763

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7L	CK->QN (RF)	SE	0.10561	0.20663	0.43817
	CK->QN (RF)	!SE	0.10559	0.20662	0.43813

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX2H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	**hold**	**CK (R)**	-0.08846	-0.04636	-0.02250
	setup	**CK (R)**	0.03157	0.05717	0.09663

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	**hold**	**CK (R)**	-0.17378	-0.06596	-0.00311
	setup	**CK (R)**	0.03723	0.09297	0.19914

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	**hold**	**CK (R)**	-0.04976	-0.03431	-0.01661
	setup	**CK (R)**	0.05670	0.08006	0.10457

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	**hold**	**CK (R)**	-0.13472	-0.05065	0.01146
	setup	**CK (R)**	0.04467	0.08756	0.17821

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	hold	CK (R)	-0.09018	-0.04877	-0.02430
	setup	CK (R)	0.03325	0.05957	0.10102

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7L	hold	CK (R)	-0.18898	-0.07612	-0.00938
	setup	CK (R)	0.04767	0.10300	0.21148

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7L	CK	SE	0.00232	0.00252	0.00321
	CK	SE	0.00004	0.00004	0.00004
	CK	SE	-0.00003	-0.00003	-0.00002
	CK	SE	0.00274	0.00295	0.00365
	CK	!SE	0.00232	0.00252	0.00322
	CK	!SE	0.00001	0.00004	0.00006
	CK	!SE	-0.00003	-0.00003	-0.00002
	CK	!SE	0.00274	0.00295	0.00366

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7L	CK	SE	0.00237	0.00258	0.00331
	CK	SE	-0.00004	-0.00002	0.00001
	CK	SE	0.00002	0.00004	0.00007
	CK	SE	0.00265	0.00288	0.00361
	CK	!SE	0.00008	0.00254	0.00331
	CK	!SE	-0.00004	0.00005	0.00330
	CK	!SE	0.00003	0.00005	0.00013
	CK	!SE	0.00266	0.00290	0.00361

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7L	CK	SE	0.00235	0.00259	0.00332
	CK	SE	-0.00003	-0.00002	0.00001
	CK	SE	0.00003	0.00004	0.00005
	CK	SE	0.00266	0.00288	0.00364
	CK	!SE	0.00237	0.00259	0.00332
	CK	!SE	-0.00004	-0.00002	0.00001
	CK	!SE	0.00004	0.00005	0.00005
	CK	!SE	0.00266	0.00288	0.00362

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7L	CK	SE	0.00232	0.00252	0.00318
	CK	SE	0.00002	0.00004	0.00005
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00274	0.00294	0.00361
	CK	!SE	0.00231	0.00252	0.00318
	CK	!SE	0.00002	0.00004	0.00006
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00274	0.00294	0.00361

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00185	0.00220	0.00346
	0.00000	0.00000	0.00001
	0.00000	0.00002	0.00003
	0.00255	0.00291	0.00416

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00418	0.00464	0.00619
	-0.00001	-0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00345	0.00392	0.00547

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00179	0.00198	0.00266
	0.00010	0.00011	0.00012
	-0.00012	-0.00012	-0.00012
	0.00278	0.00295	0.00362

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00242	0.00264	0.00342
	-0.00011	-0.00010	-0.00010
	0.00012	0.00012	0.00012
	0.00145	0.00167	0.00245

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00246	0.00285	0.00420
	0.00000	0.00000	0.00000
	0.00007	0.00007	0.00008
	0.00337	0.00375	0.00509

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00303	0.00381	0.00640
	0.00000	0.00000	0.00000
	0.00010	0.00012	0.00012
	0.00134	0.00211	0.00469

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00146	0.00162	0.00225
	0.00009	0.00010	0.00010
	-0.00012	-0.00012	-0.00011
	0.00238	0.00255	0.00317

Passive power(pJ) for SI falling :

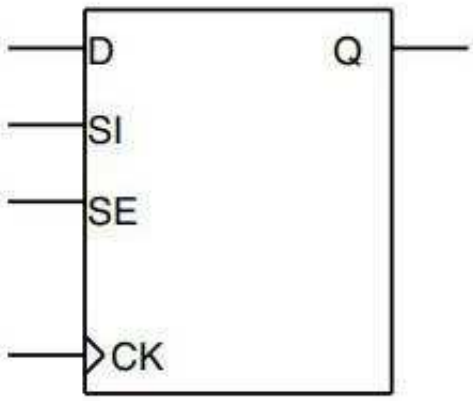
Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7L	0.00273	0.00294	0.00365
	-0.00010	-0.00010	-0.00009
	0.00011	0.00012	0.00012
	0.00182	0.00201	0.00273

SDFFX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX3H7L	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX3H7L	0.00111	0.00076	0.00205	0.00078	0.14157	0.14196

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX3H7L	0.00000	10.67300	14.25520

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7L	CK->Q (RR)	SE	0.08703	0.22481	0.54666
	CK->Q (RR)	!SE	0.08702	0.22485	0.54666

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7L	CK->Q (RF)	SE	0.06855	0.18053	0.42130
	CK->Q (RF)	!SE	0.06862	0.18053	0.42124

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7L	CK->QN (RR)	SE	0.10376	0.23457	0.55714
	CK->QN (RR)	!SE	0.10383	0.23458	0.55714

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7L	CK->QN (RF)	SE	0.11437	0.21574	0.44688
	CK->QN (RF)	!SE	0.11436	0.21577	0.44692

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX3H7L	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	**hold**	**CK (R)**	-0.08895	-0.04615	-0.02231
	setup	**CK (R)**	0.03157	0.05708	0.09836

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	**hold**	**CK (R)**	-0.16694	-0.06056	0.00193
	setup	**CK (R)**	0.03272	0.08793	0.19357

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	**hold**	**CK (R)**	-0.05815	-0.03741	-0.02074
	setup	**CK (R)**	0.05718	0.08184	0.10792

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	**hold**	**CK (R)**	-0.13468	-0.04591	0.01452
	setup	**CK (R)**	0.04710	0.08464	0.16706

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	hold	CK (R)	-0.09586	-0.05125	-0.02620
	setup	CK (R)	0.03485	0.06252	0.10582

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7L	hold	CK (R)	-0.19196	-0.07786	-0.01390
	setup	CK (R)	0.04867	0.10522	0.21816

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7L	CK	SE	0.00274	0.00297	0.00364
	CK	SE	0.00000	0.00004	0.00007
	CK	SE	-0.00005	-0.00003	-0.00001
	CK	SE	0.00315	0.00339	0.00408
	CK	!SE	0.00276	0.00297	0.00364
	CK	!SE	0.00001	0.00004	0.00004
	CK	!SE	-0.00003	-0.00003	-0.00001
	CK	!SE	0.00318	0.00339	0.00409

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7L	CK	SE	0.00281	0.00303	0.00383
	CK	SE	-0.00004	-0.00002	0.00000
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	0.00310	0.00331	0.00412
	CK	!SE	0.00281	0.00303	0.00383
	CK	!SE	-0.00002	-0.00002	-0.00000
	CK	!SE	0.00003	0.00005	0.00005
	CK	!SE	0.00310	0.00332	0.00412

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7L	CK	SE	0.00281	0.00303	0.00384
	CK	SE	-0.00004	-0.00002	-0.00001
	CK	SE	0.00004	0.00005	0.00005
	CK	SE	0.00310	0.00332	0.00413
	CK	!SE	0.00281	0.00303	0.00384
	CK	!SE	-0.00004	-0.00002	-0.00002
	CK	!SE	0.00004	0.00005	0.00005
	CK	!SE	0.00310	0.00332	0.00413

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7L	CK	SE	0.00276	0.00296	0.00363
	CK	SE	0.00004	0.00004	0.00006
	CK	SE	-0.00003	-0.00003	-0.00001
	CK	SE	0.00318	0.00339	0.00408
	CK	!SE	0.00276	0.00296	0.00362
	CK	!SE	0.00002	0.00004	0.00006
	CK	!SE	-0.00003	-0.00003	-0.00001
	CK	!SE	0.00318	0.00339	0.00405

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00191	0.00225	0.00350
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00260	0.00295	0.00420

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00442	0.00488	0.00641
	-0.00000	-0.00000	0.00000
	-0.00000	0.00001	0.00002
	0.00369	0.00415	0.00569

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00184	0.00204	0.00277
	0.00011	0.00011	0.00013
	-0.00013	-0.00013	-0.00012
	0.00287	0.00307	0.00380

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00262	0.00285	0.00370
	-0.00011	-0.00011	-0.00011
	0.00012	0.00013	0.00013
	0.00159	0.00182	0.00267

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00134	0.00205	0.00445
	0.00010	0.00011	0.00011
	-0.00012	-0.00012	-0.00010
	0.00302	0.00374	0.00615

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00316	0.00396	0.00661
	-0.00011	-0.00010	-0.00009
	0.00012	0.00012	0.00014
	0.00149	0.00227	0.00491

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00149	0.00166	0.00229
	0.00010	0.00010	0.00010
	-0.00012	-0.00012	-0.00012
	0.00243	0.00260	0.00322

Passive power(pJ) for SI falling :

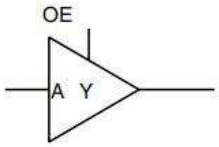
Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7L	0.00293	0.00312	0.00383
	-0.00010	-0.00010	-0.00010
	0.00012	0.00012	0.00013
	0.00198	0.00218	0.00290

TBUFX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P5H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P5H7L	0.00086	0.00124	0.02385

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P5H7L	0.00000	1.60449	2.18982

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7L	A->Y (RR)	0.04205	0.16320	0.46829
	OE->Y (FR)	0.01452	0.07028	0.23022
	OE->Y (RR)	0.02962	0.14745	0.44815

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7L	A->Y (FF)	0.03527	0.13038	0.36842
	OE->Y (FF)	0.01540	0.07104	0.23021
	OE->Y (RF)	-0.06369	0.09437	0.41857

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	A	0.00067	0.00094	0.00188
	A	-0.00003	-0.00003	-0.00003
	A	0.00003	0.00003	0.00003
	A	0.00106	0.00134	0.00227
	OE	0.00038	0.00068	0.00165
	OE	-0.00000	-0.00000	0.00000
	OE	0.00004	0.00004	0.00004
	OE	0.00097	0.00127	0.00224

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	A	0.00085	0.00116	0.00219
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00003
	A	0.00045	0.00076	0.00178
	OE	-0.00003	0.00028	0.00130
	OE	0.00006	0.00006	0.00006
	OE	-0.00004	-0.00003	-0.00001
	OE	0.00093	0.00125	0.00227

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	!OE	0.00003	0.00030	0.00122
	!OE	0.00002	0.00002	0.00002
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00070	0.00098	0.00190

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	!OE	0.00072	0.00103	0.00204
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00002	0.00002	0.00002
	!OE	0.00005	0.00035	0.00137

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	(A * Y)	-0.00004	0.00025	0.00122
	(A * Y)	0.00001	0.00002	0.00002
	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	0.00071	0.00101	0.00199
	(!A * !Y)	-0.00008	0.00022	0.00120
	(!A * !Y)	0.00003	0.00003	0.00003
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00074	0.00104	0.00203

Passive power(pJ) for OE falling (conditional):

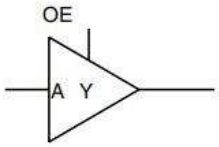
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7L	(A * Y)	0.00062	0.00093	0.00197
	(A * Y)	-0.00002	-0.00002	-0.00001
	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	-0.00016	0.00016	0.00121
	(!A * !Y)	0.00057	0.00092	0.00200
	(!A * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00026	0.00008	0.00118

TBUFX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P7H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P7H7L	0.00086	0.00126	0.02729

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P7H7L	0.00000	1.61554	2.19064

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7L	A->Y (RR)	0.04034	0.16369	0.47371
	OE->Y (FR)	0.01472	0.07044	0.23023
	OE->Y (RR)	0.02801	0.14765	0.45266

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7L	A->Y (FF)	0.03444	0.13014	0.36923
	OE->Y (FF)	0.01572	0.07130	0.23022
	OE->Y (RF)	-0.06955	0.09296	0.42031

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	A	0.00072	0.00100	0.00194
	A	-0.00004	-0.00003	-0.00003
	A	0.00004	0.00004	0.00004
	A	0.00110	0.00138	0.00230
	OE	0.00040	0.00070	0.00168
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00004	0.00004	0.00005
	OE	0.00099	0.00129	0.00226

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	A	0.00088	0.00118	0.00221
	A	0.00003	0.00003	0.00004
	A	-0.00004	-0.00004	-0.00004
	A	0.00050	0.00080	0.00183
	OE	-0.00003	0.00028	0.00130
	OE	0.00007	0.00007	0.00007
	OE	-0.00003	-0.00003	-0.00003
	OE	0.00096	0.00127	0.00230

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	!OE	0.00004	0.00031	0.00123
	!OE	0.00002	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00072	0.00099	0.00191

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	!OE	0.00074	0.00104	0.00205
	!OE	-0.00003	-0.00003	-0.00002
	!OE	0.00002	0.00002	0.00002
	!OE	0.00006	0.00036	0.00137

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	(A * Y)	-0.00004	0.00026	0.00123
	(A * Y)	0.00001	0.00002	0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00073	0.00103	0.00200
	(!A * !Y)	-0.00008	0.00022	0.00120
	(!A * !Y)	0.00003	0.00003	0.00003
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00075	0.00106	0.00204

Passive power(pJ) for OE falling (conditional):

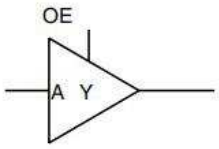
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7L	(A * Y)	0.00063	0.00094	0.00197
	(A * Y)	-0.00002	-0.00002	-0.00001
	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00016	0.00016	0.00120
	(!A * !Y)	0.00058	0.00092	0.00200
	(!A * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00027	0.00008	0.00117

TBUFX12H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX12H7L	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX12H7L	0.00231	0.00670	0.50971

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX12H7L	0.00000	11.02820	16.19400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7L	A->Y (RR)	0.03846	0.17968	0.51550
	OE->Y (FR)	0.02833	0.06062	0.12001
	OE->Y (RR)	0.02379	0.16545	0.52374

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7L	A->Y (FF)	0.04642	0.17227	0.46329
	OE->Y (FF)	0.01242	0.03017	0.05403
	OE->Y (RF)	0.03869	0.13763	0.34192

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7L	A	0.00333	0.00437	0.00820
	A	0.00018	0.00020	0.00021
	A	-0.00021	-0.00020	-0.00019
	A	0.00634	0.00741	0.01122
	OE	0.00219	0.00465	0.01301
	OE	0.00017	0.00018	0.00019
	OE	0.00000	0.00006	0.00012
	OE	0.00733	0.00971	0.01788

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7L	A	0.00854	0.00969	0.01461
	A	-0.00021	-0.00019	-0.00013
	A	0.00019	0.00021	0.00022
	A	0.00552	0.00663	0.01158
	OE	0.00563	0.00737	0.01297
	OE	0.00015	0.00017	0.00020
	OE	0.00008	0.00008	0.00010
	OE	0.00920	0.01093	0.01668

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7L	!OE	-0.00049	-0.00049	-0.00048
	!OE	-0.00001	-0.00001	-0.00000
	!OE	0.00001	0.00001	0.00001
	!OE	0.00069	0.00070	0.00070

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7L	!OE	0.00050	0.00050	0.00050
	!OE	0.00000	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00000
	!OE	-0.00069	-0.00068	-0.00068

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7L	(A * Y)	0.00013	0.00253	0.01073
	(A * Y)	0.00040	0.00041	0.00047
	(A * Y)	-0.00015	-0.00015	-0.00013
	(A * Y)	0.00560	0.00801	0.01621
	(!A * !Y)	0.00423	0.00594	0.01152
	(!A * !Y)	-0.00004	-0.00003	-0.00002
	(!A * !Y)	0.00024	0.00028	0.00030
	(!A * !Y)	0.00741	0.00911	0.01468

Passive power(pJ) for OE falling (conditional):

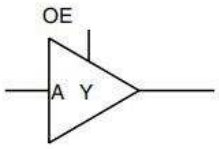
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7L	(A * Y)	0.00725	0.00983	0.01858
	(A * Y)	-0.00042	-0.00041	-0.00040
	(A * Y)	0.00015	0.00015	0.00016
	(A * Y)	0.00173	0.00432	0.01308
	(!A * !Y)	0.00593	0.00743	0.01265
	(!A * !Y)	0.00002	0.00004	0.00008
	(!A * !Y)	-0.00030	-0.00028	-0.00024
	(!A * !Y)	0.00277	0.00430	0.00951

TBUFX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX16H7L	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX16H7L	0.00326	0.00932	0.67348

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX16H7L	0.00000	15.33450	22.32640

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7L	A->Y (RR)	0.03639	0.17621	0.50985
	OE->Y (FR)	0.02747	0.05962	0.11878
	OE->Y (RR)	0.02225	0.16162	0.51561

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7L	A->Y (FF)	0.04405	0.16783	0.45501
	OE->Y (FF)	0.01256	0.03089	0.05704
	OE->Y (RF)	0.03689	0.13382	0.33440

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7L	A	0.00439	0.00587	0.01116
	A	0.00027	0.00029	0.00030
	A	-0.00031	-0.00030	-0.00029
	A	0.00876	0.01026	0.01554
	OE	0.00295	0.00638	0.01831
	OE	0.00026	0.00028	0.00028
	OE	-0.00005	0.00006	0.00016
	OE	0.00999	0.01350	0.02521

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7L	A	0.01173	0.01336	0.02011
	A	-0.00030	-0.00029	-0.00022
	A	0.00030	0.00031	0.00032
	A	0.00735	0.00893	0.01572
	OE	0.00771	0.01023	0.01829
	OE	0.00021	0.00022	0.00024
	OE	0.00011	0.00013	0.00020
	OE	0.01259	0.01511	0.02339

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7L	!OE	-0.00072	-0.00071	-0.00071
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00001	0.00001
	!OE	0.00096	0.00097	0.00098

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7L	!OE	0.00073	0.00073	0.00073
	!OE	0.00001	0.00001	0.00002
	!OE	-0.00001	-0.00001	-0.00000
	!OE	-0.00095	-0.00094	-0.00094

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7L	(A * Y)	0.00007	0.00357	0.01531
	(A * Y)	0.00048	0.00056	0.00057
	(A * Y)	-0.00023	-0.00021	-0.00018
	(A * Y)	0.00776	0.01121	0.02298
	(!A * !Y)	0.00583	0.00833	0.01636
	(!A * !Y)	-0.00005	-0.00004	-0.00003
	(!A * !Y)	0.00031	0.00041	0.00048
	(!A * !Y)	0.01023	0.01268	0.02069

Passive power(pJ) for OE falling (conditional):

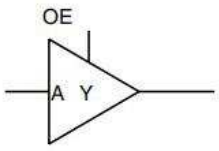
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7L	(A * Y)	0.00982	0.01354	0.02604
	(A * Y)	-0.00057	-0.00056	-0.00048
	(A * Y)	0.00021	0.00022	0.00023
	(A * Y)	0.00213	0.00584	0.01836
	(!A * !Y)	0.00813	0.01030	0.01784
	(!A * !Y)	0.00003	0.00005	0.00008
	(!A * !Y)	-0.00043	-0.00040	-0.00031
	(!A * !Y)	0.00379	0.00600	0.01352

TBUFX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1H7L	0.00087	0.00129	0.03239

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1H7L	0.00000	1.63355	2.19192

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7L	A->Y (RR)	0.03862	0.16340	0.47566
	OE->Y (FR)	0.01511	0.07075	0.23023
	OE->Y (RR)	0.02663	0.14725	0.45421

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7L	A->Y (FF)	0.03398	0.13102	0.37298
	OE->Y (FF)	0.01629	0.07175	0.23022
	OE->Y (RF)	-0.07592	0.09219	0.42367

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7L	A	0.00082	0.00109	0.00202
	A	-0.00005	-0.00005	-0.00005
	A	0.00004	0.00005	0.00005
	A	0.00117	0.00144	0.00237
	OE	0.00046	0.00075	0.00172
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00005	0.00005	0.00006
	OE	0.00103	0.00133	0.00229

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7L	A	0.00092	0.00122	0.00224
	A	0.00005	0.00005	0.00005
	A	-0.00005	-0.00005	-0.00004
	A	0.00057	0.00087	0.00189
	OE	-0.00002	0.00029	0.00131
	OE	0.00008	0.00008	0.00008
	OE	-0.00005	-0.00003	0.00000
	OE	0.00098	0.00131	0.00235

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7L	!OE	0.00006	0.00032	0.00123
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00075	0.00102	0.00193

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7L	!OE	0.00076	0.00106	0.00205
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00008	0.00037	0.00137

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7L	(A * Y)	-0.00002	0.00027	0.00124
	(A * Y)	0.00001	0.00002	0.00002
	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00076	0.00105	0.00201
	(!A * !Y)	-0.00008	0.00022	0.00119
	(!A * !Y)	0.00003	0.00003	0.00003
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00078	0.00108	0.00205

Passive power(pJ) for OE falling (conditional):

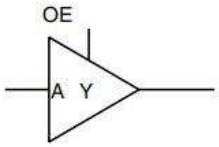
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7L	(A * Y)	0.00064	0.00095	0.00197
	(A * Y)	-0.00002	-0.00002	-0.00001
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00015	0.00016	0.00120
	(!A * !Y)	0.00060	0.00094	0.00201
	(!A * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00028	0.00007	0.00116

TBUFX1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1P4H7L	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1P4H7L	0.00085	0.00132	0.03689

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1P4H7L	0.00000	1.65324	2.19322

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7L	A->Y (RR)	0.03763	0.16353	0.47837
	OE->Y (FR)	0.01536	0.07094	0.23023
	OE->Y (RR)	0.02493	0.14659	0.45498

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7L	A->Y (FF)	0.03373	0.13085	0.37222
	OE->Y (FF)	0.01673	0.07208	0.23022
	OE->Y (RF)	-0.08172	0.09038	0.42183

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	A	0.00090	0.00118	0.00210
	A	-0.00006	-0.00006	-0.00004
	A	0.00006	0.00006	0.00006
	A	0.00120	0.00148	0.00240
	OE	0.00049	0.00078	0.00176
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00006	0.00006	0.00007
	OE	0.00106	0.00135	0.00231

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	A	0.00095	0.00125	0.00228
	A	0.00004	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00006
	A	0.00065	0.00095	0.00198
	OE	-0.00001	0.00029	0.00132
	OE	0.00009	0.00009	0.00009
	OE	-0.00006	-0.00004	0.00000
	OE	0.00101	0.00135	0.00239

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	!OE	0.00008	0.00034	0.00124
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00077	0.00103	0.00193

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	!OE	0.00078	0.00107	0.00206
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00010	0.00040	0.00138

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	(A * Y)	-0.00001	0.00028	0.00124
	(A * Y)	0.00001	0.00002	0.00002
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00077	0.00106	0.00203
	(!A * !Y)	-0.00007	0.00022	0.00119
	(!A * !Y)	0.00003	0.00003	0.00003
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00080	0.00110	0.00207

Passive power(pJ) for OE falling (conditional):

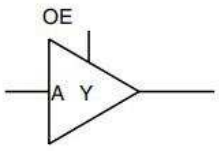
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7L	(A * Y)	0.00066	0.00096	0.00197
	(A * Y)	-0.00002	-0.00002	-0.00001
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00015	0.00016	0.00119
	(!A * !Y)	0.00060	0.00094	0.00202
	(!A * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00029	0.00006	0.00114

TBUFX2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX2H7L	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX2H7L	0.00082	0.00148	0.04818

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX2H7L	0.00000	1.75121	2.19792

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7L	A->Y (RR)	0.04214	0.17264	0.49461
	OE->Y (FR)	0.01746	0.07260	0.23028
	OE->Y (RR)	0.02601	0.14943	0.46080

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7L	A->Y (FF)	0.03843	0.14148	0.39368
	OE->Y (FF)	0.01931	0.07409	0.23025
	OE->Y (RF)	-0.10361	0.08735	0.42136

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7L	A	0.00149	0.00175	0.00265
	A	-0.00008	-0.00007	-0.00007
	A	0.00007	0.00008	0.00009
	A	0.00164	0.00190	0.00280
	OE	0.00073	0.00101	0.00195
	OE	-0.00002	-0.00002	-0.00001
	OE	0.00004	0.00009	0.00009
	OE	0.00131	0.00158	0.00251

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7L	A	0.00120	0.00149	0.00251
	A	0.00007	0.00007	0.00010
	A	-0.00008	-0.00008	-0.00007
	A	0.00106	0.00134	0.00237
	OE	0.00003	0.00032	0.00136
	OE	0.00010	0.00011	0.00011
	OE	-0.00009	-0.00004	0.00000
	OE	0.00118	0.00152	0.00256

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7L	!OE	0.00016	0.00041	0.00126
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00082	0.00106	0.00191

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7L	!OE	0.00093	0.00120	0.00214
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00029	0.00056	0.00150

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7L	(A * Y)	0.00009	0.00037	0.00130
	(A * Y)	0.00002	0.00002	0.00003
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00097	0.00124	0.00217
	(!A * !Y)	-0.00005	0.00024	0.00118
	(!A * !Y)	0.00004	0.00004	0.00004
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00095	0.00124	0.00219

Passive power(pJ) for OE falling (conditional):

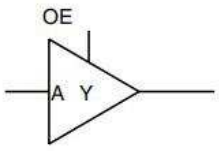
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7L	(A * Y)	0.00068	0.00097	0.00196
	(A * Y)	-0.00003	-0.00002	-0.00002
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00021	0.00009	0.00109
	(!A * !Y)	0.00067	0.00101	0.00207
	(!A * !Y)	-0.00004	-0.00003	-0.00003
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00036	-0.00001	0.00108

TBUFX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX3H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX3H7L	0.00080	0.00218	0.12756

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX3H7L	0.00000	3.41384	4.74019

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7L	A->Y (RR)	0.03902	0.17630	0.50718
	OE->Y (FR)	0.03012	0.06335	0.12507
	OE->Y (RR)	0.02619	0.16358	0.51097

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7L	A->Y (FF)	0.04560	0.16593	0.45105
	OE->Y (FF)	0.01442	0.03683	0.07165
	OE->Y (RF)	0.03988	0.13470	0.33714

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7L	A	0.00093	0.00125	0.00233
	A	0.00006	0.00007	0.00007
	A	-0.00007	-0.00007	-0.00004
	A	0.00189	0.00222	0.00330
	OE	0.00065	0.00142	0.00411
	OE	0.00006	0.00007	0.00007
	OE	-0.00003	0.00000	0.00001
	OE	0.00229	0.00306	0.00569

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7L	A	0.00266	0.00304	0.00442
	A	-0.00007	-0.00007	-0.00005
	A	0.00007	0.00007	0.00008
	A	0.00171	0.00206	0.00345
	OE	0.00174	0.00232	0.00421
	OE	0.00004	0.00004	0.00005
	OE	0.00003	0.00003	0.00004
	OE	0.00288	0.00347	0.00540

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7L	!OE	-0.00018	-0.00017	-0.00017
	!OE	-0.00000	-0.00000	-0.00000
	!OE	0.00000	0.00000	0.00000
	!OE	0.00021	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7L	!OE	0.00018	0.00018	0.00018
	!OE	0.00000	0.00000	0.00000
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00021	-0.00021	-0.00021

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7L	(A * Y)	0.00002	0.00079	0.00344
	(A * Y)	0.00011	0.00012	0.00012
	(A * Y)	-0.00005	-0.00005	-0.00005
	(A * Y)	0.00176	0.00253	0.00518
	(!A * !Y)	0.00135	0.00194	0.00382
	(!A * !Y)	-0.00001	-0.00001	0.00000
	(!A * !Y)	0.00006	0.00008	0.00009
	(!A * !Y)	0.00241	0.00299	0.00487

Passive power(pJ) for OE falling (conditional):

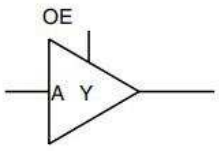
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7L	(A * Y)	0.00254	0.00336	0.00617
	(A * Y)	-0.00012	-0.00012	-0.00011
	(A * Y)	0.00005	0.00005	0.00005
	(A * Y)	0.00079	0.00161	0.00443
	(!A * !Y)	0.00207	0.00256	0.00429
	(!A * !Y)	0.00000	0.00001	0.00002
	(!A * !Y)	-0.00009	-0.00008	-0.00006
	(!A * !Y)	0.00104	0.00152	0.00324

TBUFX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX4H7L	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX4H7L	0.00086	0.00270	0.16429

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX4H7L	0.00000	4.83115	6.09069

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7L	A->Y (RR)	0.03933	0.17819	0.51092
	OE->Y (FR)	0.03168	0.06652	0.13181
	OE->Y (RR)	0.02473	0.15928	0.50138

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7L	A->Y (FF)	0.04711	0.16866	0.45194
	OE->Y (FF)	0.01407	0.03719	0.07490
	OE->Y (RF)	0.04158	0.13718	0.33561

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7L	A	0.00119	0.00156	0.00287
	A	0.00007	0.00008	0.00008
	A	-0.00009	-0.00009	-0.00008
	A	0.00236	0.00274	0.00406
	OE	0.00082	0.00178	0.00522
	OE	0.00007	0.00008	0.00008
	OE	-0.00001	0.00001	0.00004
	OE	0.00283	0.00380	0.00712

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7L	A	0.00335	0.00377	0.00548
	A	-0.00008	-0.00008	-0.00006
	A	0.00008	0.00009	0.00009
	A	0.00217	0.00257	0.00430
	OE	0.00231	0.00304	0.00539
	OE	0.00005	0.00006	0.00007
	OE	0.00004	0.00004	0.00005
	OE	0.00369	0.00443	0.00702

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7L	!OE	-0.00020	-0.00020	-0.00020
	!OE	-0.00000	-0.00000	-0.00000
	!OE	0.00000	0.00000	0.00000
	!OE	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7L	!OE	0.00020	0.00020	0.00021
	!OE	0.00000	0.00000	0.00000
	!OE	-0.00000	-0.00000	0.00000
	!OE	-0.00022	-0.00022	-0.00022

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7L	(A * Y)	0.00001	0.00099	0.00431
	(A * Y)	0.00015	0.00015	0.00015
	(A * Y)	-0.00006	-0.00006	-0.00005
	(A * Y)	0.00217	0.00315	0.00647
	(!A * !Y)	0.00185	0.00257	0.00490
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00011	0.00012	0.00013
	(!A * !Y)	0.00307	0.00382	0.00615

Passive power(pJ) for OE falling (conditional):

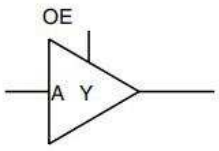
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7L	(A * Y)	0.00315	0.00419	0.00774
	(A * Y)	-0.00015	-0.00015	-0.00015
	(A * Y)	0.00006	0.00006	0.00007
	(A * Y)	0.00097	0.00202	0.00557
	(!A * !Y)	0.00263	0.00321	0.00525
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	-0.00012	-0.00011	-0.00011
	(!A * !Y)	0.00140	0.00197	0.00401

TBUFX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX6H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX6H7L	0.00143	0.00403	0.25497

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX6H7L	0.00000	6.38582	8.48253

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7L	A->Y (RR)	0.04160	0.18310	0.52029
	OE->Y (FR)	0.03239	0.06594	0.12815
	OE->Y (RR)	0.02782	0.17216	0.53555

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7L	A->Y (FF)	0.04849	0.17384	0.46500
	OE->Y (FF)	0.01346	0.03205	0.05639
	OE->Y (RF)	0.04272	0.14308	0.35153

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7L	A	0.00155	0.00208	0.00400
	A	0.00009	0.00010	0.00010
	A	-0.00009	-0.00009	-0.00008
	A	0.00329	0.00383	0.00574
	OE	0.00102	0.00224	0.00650
	OE	0.00009	0.00009	0.00010
	OE	0.00002	0.00003	0.00006
	OE	0.00402	0.00526	0.00949

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7L	A	0.00455	0.00516	0.00765
	A	-0.00010	-0.00009	-0.00005
	A	0.00009	0.00009	0.00009
	A	0.00284	0.00339	0.00591
	OE	0.00290	0.00379	0.00673
	OE	0.00008	0.00009	0.00009
	OE	0.00003	0.00004	0.00005
	OE	0.00507	0.00596	0.00902

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7L	!OE	-0.00029	-0.00029	-0.00028
	!OE	-0.00000	-0.00000	-0.00000
	!OE	0.00000	0.00000	0.00000
	!OE	0.00042	0.00043	0.00043

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7L	!OE	0.00029	0.00030	0.00030
	!OE	0.00000	0.00000	0.00000
	!OE	-0.00000	-0.00000	0.00000
	!OE	-0.00042	-0.00042	-0.00042

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7L	(A * Y)	0.00001	0.00124	0.00549
	(A * Y)	0.00020	0.00020	0.00023
	(A * Y)	-0.00007	-0.00007	-0.00006
	(A * Y)	0.00324	0.00447	0.00872
	(!A * !Y)	0.00229	0.00317	0.00610
	(!A * !Y)	-0.00001	-0.00001	0.00000
	(!A * !Y)	0.00010	0.00014	0.00014
	(!A * !Y)	0.00425	0.00515	0.00807

Passive power(pJ) for OE falling (conditional):

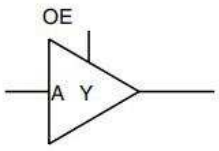
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7L	(A * Y)	0.00438	0.00572	0.01032
	(A * Y)	-0.00021	-0.00020	-0.00020
	(A * Y)	0.00007	0.00007	0.00008
	(A * Y)	0.00114	0.00248	0.00708
	(!A * !Y)	0.00357	0.00435	0.00707
	(!A * !Y)	0.00000	0.00001	0.00003
	(!A * !Y)	-0.00014	-0.00014	-0.00010
	(!A * !Y)	0.00162	0.00238	0.00511

TBUFX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX8H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX8H7L	0.00170	0.00500	0.33760

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX8H7L	0.00000	7.85675	11.19360

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7L	A->Y (RR)	0.03426	0.17140	0.50136
	OE->Y (FR)	0.02718	0.05933	0.11894
	OE->Y (RR)	0.02179	0.16018	0.51362

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7L	A->Y (FF)	0.04154	0.16340	0.44982
	OE->Y (FF)	0.01236	0.03011	0.05525
	OE->Y (RF)	0.03509	0.12950	0.32811

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7L	A	0.00200	0.00275	0.00546
	A	0.00014	0.00016	0.00017
	A	-0.00016	-0.00016	-0.00015
	A	0.00424	0.00498	0.00769
	OE	0.00128	0.00311	0.00937
	OE	0.00014	0.00015	0.00016
	OE	-0.00006	0.00002	0.00005
	OE	0.00506	0.00690	0.01310

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7L	A	0.00568	0.00657	0.01002
	A	-0.00016	-0.00016	-0.00012
	A	0.00015	0.00016	0.00016
	A	0.00349	0.00432	0.00778
	OE	0.00363	0.00495	0.00916
	OE	-0.00009	0.00011	0.00012
	OE	0.00004	0.00006	0.00008
	OE	0.00627	0.00758	0.01185

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7L	!OE	-0.00037	-0.00037	-0.00037
	!OE	-0.00001	-0.00001	-0.00000
	!OE	0.00001	0.00001	0.00001
	!OE	0.00047	0.00048	0.00048

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7L	!OE	0.00038	0.00038	0.00038
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00047	-0.00047	-0.00046

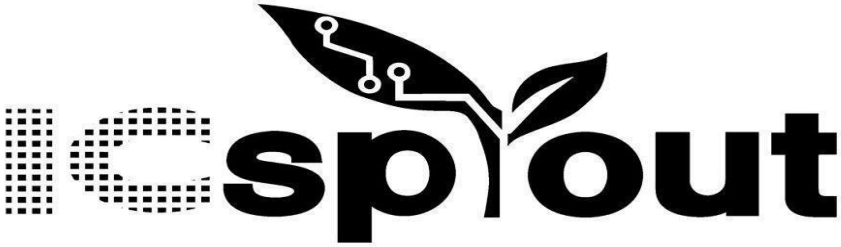
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7L	(A * Y)	-0.00002	0.00183	0.00805
	(A * Y)	0.00030	0.00030	0.00035
	(A * Y)	-0.00012	-0.00011	-0.00011
	(A * Y)	0.00404	0.00589	0.01212
	(!A * !Y)	0.00284	0.00415	0.00835
	(!A * !Y)	-0.00003	-0.00002	0.00000
	(!A * !Y)	0.00020	0.00022	0.00028
	(!A * !Y)	0.00518	0.00650	0.01071

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7L	(A * Y)	0.00506	0.00705	0.01369
	(A * Y)	-0.00035	-0.00030	-0.00030
	(A * Y)	0.00011	0.00011	0.00012
	(A * Y)	0.00096	0.00296	0.00961
	(!A * !Y)	0.00418	0.00536	0.00935
	(!A * !Y)	0.00000	0.00003	0.00005
	(!A * !Y)	-0.00023	-0.00021	-0.00020
	(!A * !Y)	0.00183	0.00300	0.00699

TIEHIH7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIEHIH7L	1.12000

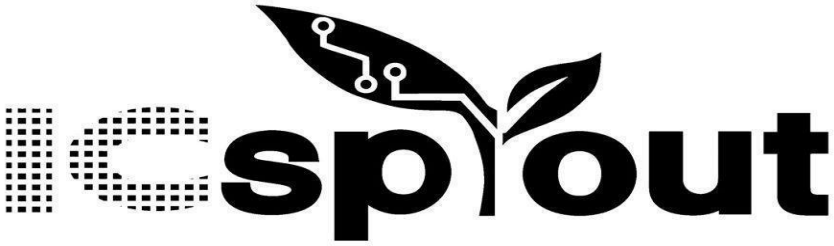
Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIEHIH7L	0.28439

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIEHIH7L	0.00000	0.00120	0.00120

TIELOH7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIELOH7L	1.12000

Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIELOH7L	0.53413

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIELOH7L	0.00000	0.00428	0.00428

TINVX0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P5H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P5H7L	0.00066	0.00128	0.02329

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P5H7L	0.00000	0.94800	1.11138

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7L	A->Y (FR)	0.02836	0.18081	0.63396
	OE->Y (FR)	0.01662	0.07175	0.23017
	OE->Y (RR)	0.02940	0.14572	0.44068

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7L	A->Y (RF)	0.01701	0.10453	0.40482
	OE->Y (FF)	0.01757	0.07251	0.23017
	OE->Y (RF)	-0.07143	0.09047	0.41019

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7L	A	0.00065	0.00075	0.00136
	A	-0.00004	-0.00004	-0.00004
	A	0.00004	0.00005	0.00005
	A	-0.00001	0.00010	0.00070
	OE	0.00031	0.00059	0.00156
	OE	-0.00000	-0.00000	0.00000
	OE	0.00003	0.00004	0.00004
	OE	0.00098	0.00127	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7L	A	-0.00006	0.00003	0.00059
	A	0.00004	0.00004	0.00004
	A	-0.00005	-0.00005	-0.00004
	A	0.00058	0.00068	0.00124
	OE	-0.00009	0.00020	0.00119
	OE	0.00006	0.00006	0.00006
	OE	-0.00004	-0.00003	0.00000
	OE	0.00093	0.00126	0.00226

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7L	!OE	-0.00017	-0.00017	-0.00016
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00000	0.00000
	!OE	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7L	!OE	0.00017	0.00017	0.00017
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00019	-0.00018	-0.00017

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7L	(A * !Y)	-0.00010	0.00019	0.00115
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00083	0.00112	0.00208
	(!A * Y)	-0.00004	0.00025	0.00120
	(!A * Y)	0.00001	0.00002	0.00002
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	0.00079	0.00108	0.00203

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7L	(A * !Y)	0.00069	0.00101	0.00207
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00025	0.00008	0.00115
	(!A * Y)	0.00071	0.00101	0.00203
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	-0.00013	0.00017	0.00119

TINVX0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P7H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P7H7L	0.00068	0.00126	0.02741

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P7H7L	0.00000	0.95904	1.11400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7L	A->Y (FR)	0.02681	0.18417	0.65140
	OE->Y (FR)	0.01560	0.07109	0.23018
	OE->Y (RR)	0.02717	0.14788	0.45500

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7L	A->Y (RF)	0.01589	0.10531	0.41395
	OE->Y (FF)	0.01663	0.07195	0.23018
	OE->Y (RF)	-0.07717	0.09128	0.42017

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7L	A	0.00069	0.00081	0.00150
	A	-0.00005	-0.00005	-0.00005
	A	0.00005	0.00005	0.00005
	A	0.00002	0.00013	0.00081
	OE	0.00034	0.00063	0.00159
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00004	0.00004	0.00005
	OE	0.00090	0.00119	0.00215

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7L	A	-0.00007	0.00002	0.00065
	A	0.00005	0.00005	0.00005
	A	-0.00005	-0.00005	-0.00005
	A	0.00060	0.00070	0.00133
	OE	-0.00008	0.00022	0.00123
	OE	0.00007	0.00007	0.00007
	OE	-0.00004	-0.00003	-0.00001
	OE	0.00091	0.00122	0.00224

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7L	!OE	-0.00015	-0.00015	-0.00014
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00000	0.00000
	!OE	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7L	!OE	0.00015	0.00015	0.00016
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00019	-0.00018	-0.00017

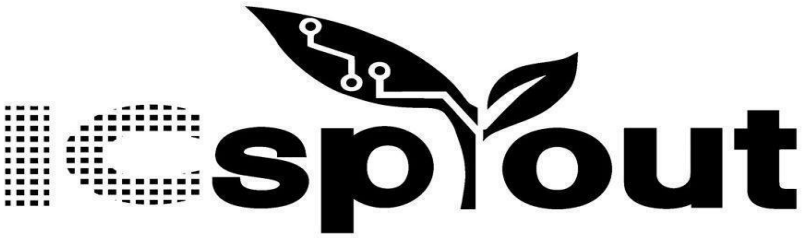
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7L	(A * !Y)	-0.00009	0.00021	0.00117
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00076	0.00106	0.00203
	(!A * Y)	-0.00002	0.00027	0.00123
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	0.00073	0.00102	0.00198

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7L	(A * !Y)	0.00064	0.00097	0.00204
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00023	0.00011	0.00119
	(!A * Y)	0.00066	0.00096	0.00199
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	-0.00011	0.00020	0.00124

TINVX12H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX12H7L	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX12H7L	0.00623	0.00775	0.50734

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX12H7L	0.00000	22.73810	25.86410

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7L	A->Y (FR)	0.03902	0.18401	0.54326
	OE->Y (FR)	0.03615	0.07451	0.14813
	OE->Y (RR)	0.01488	0.14214	0.45911

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7L	A->Y (RF)	0.03930	0.12226	0.31232
	OE->Y (FF)	0.01633	0.04644	0.10614
	OE->Y (RF)	0.02980	0.12495	0.32893

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7L	A	0.01076	0.01445	0.02572
	A	0.00038	0.00040	0.00043
	A	-0.00041	-0.00040	-0.00025
	A	0.00911	0.01277	0.02385
	OE	0.00292	0.00636	0.01805
	OE	0.00045	0.00045	0.00046
	OE	-0.00009	-0.00005	-0.00000
	OE	0.00892	0.01240	0.02396

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7L	A	0.01277	0.01600	0.02610
	A	-0.00043	-0.00040	-0.00038
	A	0.00040	0.00041	0.00042
	A	0.01439	0.01768	0.02839
	OE	0.00872	0.01191	0.02045
	OE	-0.00002	0.00006	0.00010
	OE	0.00029	0.00036	0.00037
	OE	0.01196	0.01516	0.02391

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7L	!OE	0.00060	0.00351	0.01303
	!OE	0.00016	0.00018	0.00019
	!OE	-0.00018	-0.00018	-0.00017
	!OE	0.00541	0.00832	0.01787

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7L	!OE	0.00537	0.00862	0.01910
	!OE	-0.00018	-0.00018	-0.00016
	!OE	0.00018	0.00018	0.00019
	!OE	0.00054	0.00379	0.01427

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7L	(A * !Y)	0.00737	0.01055	0.01908
	(A * !Y)	-0.00015	-0.00013	-0.00010
	(A * !Y)	0.00051	0.00057	0.00063
	(A * !Y)	0.01028	0.01339	0.02192
	(!A * Y)	0.00079	0.00427	0.01583
	(!A * Y)	0.00064	0.00067	0.00068
	(!A * Y)	-0.00026	-0.00024	-0.00022
	(!A * Y)	0.00722	0.01071	0.02230

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7L	(A * !Y)	0.00686	0.00861	0.01490
	(A * !Y)	0.00010	0.00015	0.00021
	(A * !Y)	-0.00062	-0.00057	-0.00051
	(A * !Y)	0.00407	0.00580	0.01206
	(!A * Y)	0.00815	0.01194	0.02448
	(!A * Y)	-0.00068	-0.00067	-0.00064
	(!A * Y)	0.00025	0.00026	0.00028
	(!A * Y)	0.00165	0.00545	0.01798

TINVX16H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX16H7L	17.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX16H7L	0.00822	0.01080	0.68219

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX16H7L	0.00000	30.60600	34.89220

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7L	A->Y (FR)	0.03905	0.18414	0.54333
	OE->Y (FR)	0.03468	0.07199	0.14329
	OE->Y (RR)	0.01469	0.14253	0.45970

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7L	A->Y (RF)	0.03929	0.12348	0.31656
	OE->Y (FF)	0.01670	0.04688	0.10672
	OE->Y (RF)	0.02914	0.12402	0.32859

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7L	A	0.01412	0.01909	0.03395
	A	0.00050	0.00053	0.00059
	A	-0.00061	-0.00054	-0.00040
	A	0.01198	0.01693	0.03168
	OE	0.00381	0.00859	0.02468
	OE	0.00059	0.00061	0.00063
	OE	-0.00024	-0.00007	0.00002
	OE	0.01221	0.01699	0.03292

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7L	A	0.01666	0.02115	0.03463
	A	-0.00055	-0.00052	-0.00038
	A	0.00053	0.00055	0.00067
	A	0.01894	0.02331	0.03740
	OE	0.01126	0.01554	0.02729
	OE	-0.00008	0.00009	0.00015
	OE	0.00044	0.00047	0.00050
	OE	0.01593	0.02024	0.03285

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7L	!OE	0.00079	0.00467	0.01735
	!OE	0.00024	0.00025	0.00026
	!OE	-0.00025	-0.00024	-0.00021
	!OE	0.00715	0.01103	0.02372

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7L	!OE	0.00705	0.01141	0.02536
	!OE	-0.00025	-0.00024	-0.00021
	!OE	0.00023	0.00024	0.00025
	!OE	0.00068	0.00505	0.01898

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7L	(A * !Y)	0.00948	0.01374	0.02549
	(A * !Y)	-0.00018	-0.00015	-0.00007
	(A * !Y)	0.00069	0.00077	0.00088
	(A * !Y)	0.01351	0.01787	0.02964
	(!A * Y)	0.00101	0.00583	0.02178
	(!A * Y)	0.00088	0.00090	0.00092
	(!A * Y)	-0.00035	-0.00034	-0.00032
	(!A * Y)	0.00999	0.01479	0.03076

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7L	(A * !Y)	0.00939	0.01193	0.02096
	(A * !Y)	0.00007	0.00016	0.00021
	(A * !Y)	-0.00079	-0.00076	-0.00069
	(A * !Y)	0.00527	0.00781	0.01683
	(!A * Y)	0.01109	0.01635	0.03364
	(!A * Y)	-0.00092	-0.00090	-0.00088
	(!A * Y)	0.00034	0.00035	0.00035
	(!A * Y)	0.00212	0.00735	0.02464

TINVX1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1H7L	0.00074	0.00132	0.03138

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1H7L	0.00000	0.97705	1.11796

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7L	A->Y (FR)	0.02446	0.17817	0.63900
	OE->Y (FR)	0.01595	0.07132	0.23017
	OE->Y (RR)	0.02397	0.14234	0.44043

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7L	A->Y (RF)	0.01403	0.10197	0.40597
	OE->Y (FF)	0.01716	0.07232	0.23017
	OE->Y (RF)	-0.08360	0.08822	0.41315

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7L	A	0.00077	0.00091	0.00170
	A	-0.00006	-0.00006	-0.00006
	A	0.00006	0.00006	0.00007
	A	0.00002	0.00014	0.00093
	OE	0.00035	0.00064	0.00160
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00005	0.00005	0.00006
	OE	0.00092	0.00121	0.00216

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7L	A	-0.00009	0.00002	0.00074
	A	0.00006	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00006
	A	0.00066	0.00078	0.00151
	OE	-0.00008	0.00021	0.00122
	OE	0.00008	0.00008	0.00008
	OE	-0.00005	-0.00003	0.00001
	OE	0.00095	0.00128	0.00230

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7L	!OE	-0.00017	-0.00017	-0.00016
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00000	0.00000
	!OE	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7L	!OE	0.00018	0.00018	0.00018
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00019	-0.00019	-0.00018

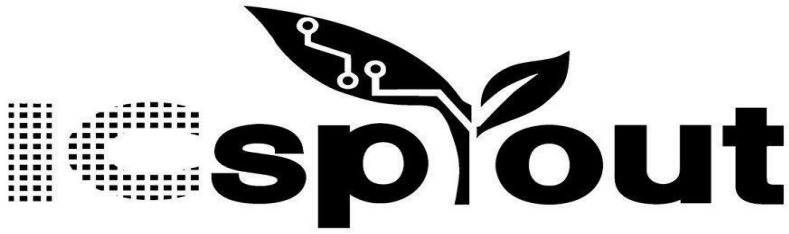
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7L	(A * !Y)	-0.00009	0.00020	0.00116
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00079	0.00109	0.00205
	(!A * Y)	-0.00002	0.00027	0.00122
	(!A * Y)	0.00002	0.00002	0.00003
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00075	0.00104	0.00200

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7L	(A * !Y)	0.00066	0.00099	0.00205
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00025	0.00009	0.00117
	(!A * Y)	0.00068	0.00098	0.00200
	(!A * Y)	-0.00003	-0.00002	-0.00002
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	-0.00011	0.00020	0.00123

TINVX1P4H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1P4H7L	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1P4H7L	0.00082	0.00136	0.03562

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1P4H7L	0.00000	0.99675	1.12555

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7L	A->Y (FR)	0.02469	0.17873	0.64082
	OE->Y (FR)	0.01702	0.07219	0.23018
	OE->Y (RR)	0.02756	0.14633	0.44562

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7L	A->Y (RF)	0.01351	0.10110	0.40352
	OE->Y (FF)	0.01836	0.07330	0.23018
	OE->Y (RF)	-0.08536	0.08618	0.41022

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7L	A	0.00095	0.00108	0.00196
	A	-0.00007	-0.00007	-0.00007
	A	0.00007	0.00007	0.00007
	A	0.00010	0.00024	0.00111
	OE	0.00052	0.00080	0.00176
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00006	0.00006	0.00010
	OE	0.00107	0.00136	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7L	A	-0.00010	0.00002	0.00082
	A	0.00007	0.00007	0.00007
	A	-0.00007	-0.00007	-0.00007
	A	0.00072	0.00086	0.00167
	OE	-0.00008	0.00021	0.00123
	OE	0.00009	0.00009	0.00009
	OE	-0.00009	-0.00004	0.00003
	OE	0.00097	0.00132	0.00235

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7L	!OE	-0.00019	-0.00018	-0.00017
	!OE	-0.00002	-0.00001	-0.00001
	!OE	0.00000	0.00000	0.00000
	!OE	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7L	!OE	0.00019	0.00019	0.00020
	!OE	0.00001	0.00001	0.00002
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00022	-0.00021	-0.00021

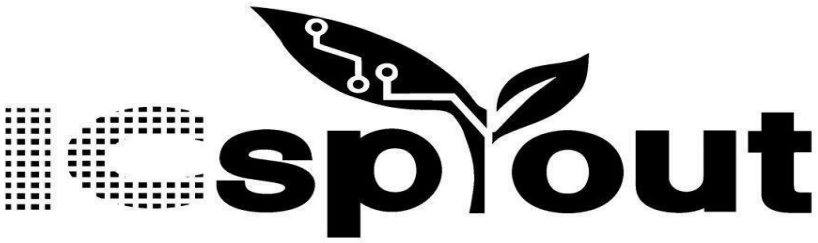
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7L	(A * !Y)	-0.00009	0.00020	0.00115
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	0.00083	0.00112	0.00208
	(!A * Y)	0.00002	0.00030	0.00124
	(!A * Y)	0.00001	0.00002	0.00002
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00081	0.00110	0.00204

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7L	(A * !Y)	0.00070	0.00103	0.00209
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00001	0.00002	0.00002
	(A * !Y)	-0.00025	0.00009	0.00117
	(!A * Y)	0.00070	0.00099	0.00199
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00011	0.00019	0.00120

TINVX2H7L



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX2H7L	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX2H7L	0.00090	0.00156	0.04204

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX2H7L	0.00000	1.03030	1.28007

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7L	A->Y (FR)	0.02282	0.17728	0.64248
	OE->Y (FR)	0.01703	0.07217	0.23019
	OE->Y (RR)	0.02446	0.14393	0.44502

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7L	A->Y (RF)	0.00738	0.09785	0.39785
	OE->Y (FF)	0.01864	0.07353	0.23018
	OE->Y (RF)	-0.09378	0.08368	0.40537

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7L	A	0.00104	0.00121	0.00226
	A	-0.00008	-0.00008	-0.00008
	A	0.00009	0.00009	0.00009
	A	0.00004	0.00021	0.00126
	OE	0.00051	0.00079	0.00173
	OE	-0.00002	-0.00001	-0.00001
	OE	0.00004	0.00008	0.00008
	OE	0.00110	0.00138	0.00232

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7L	A	-0.00012	0.00003	0.00098
	A	0.00008	0.00008	0.00008
	A	-0.00009	-0.00009	-0.00009
	A	0.00085	0.00102	0.00198
	OE	-0.00008	0.00021	0.00123
	OE	0.00010	0.00010	0.00010
	OE	-0.00008	-0.00004	0.00002
	OE	0.00116	0.00150	0.00253

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7L	!OE	-0.00022	-0.00021	-0.00020
	!OE	-0.00002	-0.00001	-0.00001
	!OE	0.00000	0.00000	0.00000
	!OE	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7L	!OE	0.00022	0.00022	0.00023
	!OE	0.00001	0.00002	0.00002
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00023	-0.00023	-0.00021

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7L	(A * !Y)	-0.00009	0.00019	0.00114
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00002	-0.00001	-0.00001
	(A * !Y)	0.00095	0.00124	0.00219
	(!A * Y)	0.00002	0.00030	0.00123
	(!A * Y)	0.00000	0.00002	0.00002
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00091	0.00119	0.00213

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7L	(A * !Y)	0.00070	0.00103	0.00209
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00037	-0.00003	0.00106
	(!A * Y)	0.00072	0.00102	0.00201
	(!A * Y)	-0.00002	-0.00002	-0.00000
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00019	0.00011	0.00112

TINVX3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX3H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX3H7L	0.00201	0.00252	0.12791

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX3H7L	0.00000	6.90898	8.10572

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7L	A->Y (FR)	0.04669	0.19163	0.55154
	OE->Y (FR)	0.03383	0.07006	0.13946
	OE->Y (RR)	0.02050	0.14322	0.45694

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7L	A->Y (RF)	0.04564	0.12527	0.30871
	OE->Y (FF)	0.01644	0.04715	0.10817
	OE->Y (RF)	0.03271	0.12147	0.31333

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7L	A	0.00326	0.00426	0.00734
	A	0.00009	0.00010	0.00011
	A	-0.00011	-0.00011	-0.00009
	A	0.00254	0.00353	0.00658
	OE	0.00081	0.00190	0.00557
	OE	0.00012	0.00012	0.00013
	OE	-0.00006	-0.00002	0.00000
	OE	0.00276	0.00384	0.00744

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7L	A	0.00385	0.00475	0.00751
	A	-0.00011	-0.00010	-0.00005
	A	0.00009	0.00011	0.00012
	A	0.00458	0.00548	0.00841
	OE	0.00266	0.00357	0.00624
	OE	0.00001	0.00002	0.00003
	OE	0.00007	0.00008	0.00009
	OE	0.00386	0.00478	0.00758

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7L	!OE	0.00013	0.00092	0.00354
	!OE	0.00004	0.00005	0.00005
	!OE	-0.00005	-0.00005	-0.00004
	!OE	0.00169	0.00248	0.00510

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7L	!OE	0.00167	0.00256	0.00546
	!OE	-0.00005	-0.00005	-0.00004
	!OE	0.00005	0.00005	0.00005
	!OE	0.00011	0.00101	0.00390

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7L	(A * !Y)	0.00225	0.00316	0.00582
	(A * !Y)	-0.00003	-0.00002	-0.00000
	(A * !Y)	0.00014	0.00015	0.00017
	(A * !Y)	0.00333	0.00426	0.00693
	(!A * Y)	0.00013	0.00121	0.00481
	(!A * Y)	0.00018	0.00018	0.00018
	(!A * Y)	-0.00007	-0.00007	-0.00006
	(!A * Y)	0.00217	0.00326	0.00686

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7L	(A * !Y)	0.00222	0.00283	0.00503
	(A * !Y)	0.00000	0.00002	0.00003
	(A * !Y)	-0.00015	-0.00014	-0.00014
	(A * !Y)	0.00113	0.00173	0.00392
	(!A * Y)	0.00268	0.00385	0.00775
	(!A * Y)	-0.00018	-0.00018	-0.00018
	(!A * Y)	0.00007	0.00007	0.00008
	(!A * Y)	0.00062	0.00178	0.00569

TINVX4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX4H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX4H7L	0.00241	0.00289	0.16474

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX4H7L	0.00000	8.06239	9.35388

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7L	A->Y (FR)	0.04381	0.18832	0.54722
	OE->Y (FR)	0.03599	0.07401	0.14704
	OE->Y (RR)	0.01908	0.14138	0.45333

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7L	A->Y (RF)	0.04313	0.12263	0.30541
	OE->Y (FF)	0.01597	0.04663	0.10764
	OE->Y (RF)	0.03202	0.12284	0.31797

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7L	A	0.00403	0.00524	0.00909
	A	0.00013	0.00014	0.00014
	A	-0.00014	-0.00014	-0.00011
	A	0.00321	0.00442	0.00817
	OE	0.00106	0.00230	0.00651
	OE	0.00014	0.00016	0.00016
	OE	-0.00004	-0.00002	0.00002
	OE	0.00330	0.00454	0.00871

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7L	A	0.00470	0.00577	0.00917
	A	-0.00014	-0.00013	-0.00007
	A	0.00013	0.00014	0.00015
	A	0.00550	0.00660	0.01024
	OE	0.00332	0.00442	0.00750
	OE	0.00000	0.00002	0.00003
	OE	0.00010	0.00012	0.00012
	OE	0.00463	0.00573	0.00892

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7L	!OE	0.00020	0.00117	0.00438
	!OE	0.00006	0.00006	0.00006
	!OE	-0.00006	-0.00006	-0.00005
	!OE	0.00208	0.00304	0.00626

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7L	!OE	0.00203	0.00312	0.00667
	!OE	-0.00006	-0.00006	-0.00005
	!OE	0.00006	0.00006	0.00006
	!OE	0.00015	0.00125	0.00480

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7L	(A * !Y)	0.00283	0.00392	0.00701
	(A * !Y)	-0.00005	-0.00004	-0.00003
	(A * !Y)	0.00015	0.00019	0.00022
	(A * !Y)	0.00402	0.00510	0.00819
	(!A * Y)	0.00023	0.00147	0.00565
	(!A * Y)	0.00022	0.00023	0.00023
	(!A * Y)	-0.00009	-0.00009	-0.00008
	(!A * Y)	0.00261	0.00385	0.00803

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7L	(A * !Y)	0.00257	0.00323	0.00559
	(A * !Y)	0.00003	0.00004	0.00005
	(A * !Y)	-0.00021	-0.00019	-0.00015
	(A * !Y)	0.00141	0.00206	0.00442
	(!A * Y)	0.00309	0.00444	0.00895
	(!A * Y)	-0.00023	-0.00023	-0.00022
	(!A * Y)	0.00009	0.00009	0.00009
	(!A * Y)	0.00068	0.00204	0.00656

TINVX6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX6H7L	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX6H7L	0.00343	0.00415	0.24708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX6H7L	0.00000	11.57630	13.31250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7L	A->Y (FR)	0.04116	0.18555	0.54310
	OE->Y (FR)	0.03841	0.07792	0.15389
	OE->Y (RR)	0.01507	0.14045	0.45300

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7L	A->Y (RF)	0.04083	0.12149	0.30677
	OE->Y (FF)	0.01612	0.04660	0.10722
	OE->Y (RF)	0.03166	0.12593	0.32748

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7L	A	0.00569	0.00753	0.01322
	A	0.00019	0.00020	0.00021
	A	-0.00021	-0.00021	-0.00019
	A	0.00467	0.00651	0.01208
	OE	0.00147	0.00319	0.00903
	OE	0.00022	0.00023	0.00024
	OE	-0.00006	-0.00003	0.00000
	OE	0.00468	0.00641	0.01221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7L	A	0.00668	0.00830	0.01336
	A	-0.00021	-0.00020	-0.00019
	A	0.00019	0.00021	0.00021
	A	0.00768	0.00932	0.01469
	OE	0.00481	0.00640	0.01072
	OE	-0.00012	0.00003	0.00005
	OE	0.00016	0.00018	0.00019
	OE	0.00660	0.00819	0.01278

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7L	!OE	0.00031	0.00175	0.00653
	!OE	0.00009	0.00009	0.00010
	!OE	-0.00009	-0.00009	-0.00009
	!OE	0.00295	0.00439	0.00917

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7L	!OE	0.00291	0.00454	0.00982
	!OE	-0.00010	-0.00009	-0.00009
	!OE	0.00009	0.00009	0.00009
	!OE	0.00026	0.00190	0.00718

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7L	(A * !Y)	0.00415	0.00572	0.01004
	(A * !Y)	-0.00008	-0.00007	-0.00006
	(A * !Y)	0.00025	0.00029	0.00031
	(A * !Y)	0.00572	0.00730	0.01162
	(!A * Y)	0.00037	0.00210	0.00790
	(!A * Y)	0.00033	0.00034	0.00034
	(!A * Y)	-0.00013	-0.00013	-0.00012
	(!A * Y)	0.00378	0.00553	0.01134

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7L	(A * !Y)	0.00366	0.00450	0.00756
	(A * !Y)	0.00006	0.00008	0.00010
	(A * !Y)	-0.00030	-0.00029	-0.00025
	(A * !Y)	0.00210	0.00294	0.00599
	(!A * Y)	0.00432	0.00620	0.01249
	(!A * Y)	-0.00034	-0.00034	-0.00033
	(!A * Y)	0.00013	0.00013	0.00014
	(!A * Y)	0.00087	0.00276	0.00904

TINVX8H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX8H7L	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX8H7L	0.00461	0.00566	0.33889

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX8H7L	0.00000	15.93300	18.52410

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7L	A->Y (FR)	0.03961	0.18415	0.54267
	OE->Y (FR)	0.03368	0.07034	0.14048
	OE->Y (RR)	0.01411	0.14074	0.45560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7L	A->Y (RF)	0.03934	0.12155	0.31265
	OE->Y (FF)	0.01593	0.04587	0.10536
	OE->Y (RF)	0.02935	0.12199	0.32257

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7L	A	0.00732	0.00983	0.01747
	A	0.00025	0.00026	0.00027
	A	-0.00028	-0.00027	-0.00026
	A	0.00590	0.00840	0.01599
	OE	0.00184	0.00432	0.01266
	OE	0.00030	0.00031	0.00032
	OE	-0.00009	-0.00004	-0.00001
	OE	0.00625	0.00872	0.01701

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7L	A	0.00845	0.01068	0.01757
	A	-0.00027	-0.00026	-0.00018
	A	0.00026	0.00027	0.00028
	A	0.00986	0.01212	0.01945
	OE	0.00574	0.00788	0.01397
	OE	0.00003	0.00005	0.00006
	OE	0.00022	0.00023	0.00027
	OE	0.00822	0.01040	0.01666

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7L	!OE	0.00038	0.00236	0.00887
	!OE	0.00012	0.00013	0.00014
	!OE	-0.00012	-0.00012	-0.00012
	!OE	0.00392	0.00591	0.01242

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7L	!OE	0.00374	0.00598	0.01316
	!OE	-0.00012	-0.00012	-0.00012
	!OE	0.00012	0.00012	0.00012
	!OE	0.00020	0.00244	0.00962

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7L	(A * !Y)	0.00488	0.00701	0.01310
	(A * !Y)	-0.00009	-0.00008	-0.00006
	(A * !Y)	0.00037	0.00039	0.00044
	(A * !Y)	0.00706	0.00924	0.01536
	(!A * Y)	0.00044	0.00293	0.01123
	(!A * Y)	0.00043	0.00045	0.00046
	(!A * Y)	-0.00018	-0.00017	-0.00015
	(!A * Y)	0.00509	0.00760	0.01591

Passive power(pJ) for OE falling (conditional):

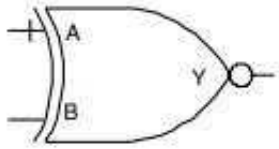
Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7L	(A * !Y)	0.00498	0.00632	0.01121
	(A * !Y)	0.00006	0.00010	0.00013
	(A * !Y)	-0.00039	-0.00038	-0.00037
	(A * !Y)	0.00274	0.00409	0.00895
	(!A * Y)	0.00588	0.00860	0.01761
	(!A * Y)	-0.00046	-0.00045	-0.00043
	(!A * Y)	0.00017	0.00018	0.00018
	(!A * Y)	0.00119	0.00391	0.01292

XNOR2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P5H7L	0.00164	0.00085	0.04521

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P5H7L	0.00000	3.15917	4.72797

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7L	A->Y (RR)	B	0.03176	0.15663	0.46611
	A->Y (FR)	!B	0.05637	0.20101	0.56099
	B->Y (RR)	A	0.04640	0.18177	0.50974
	B->Y (FR)	!A	0.06663	0.21345	0.57453

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7L	A->Y (FF)	B	0.04260	0.15254	0.42674
	A->Y (RF)	!B	0.04327	0.13389	0.33303
	B->Y (FF)	A	0.05496	0.17297	0.45682
	B->Y (RF)	!A	0.06900	0.15873	0.35891

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7L	A	B	0.00027	0.00078	0.00254
	A	B	0.00003	0.00003	0.00004
	A	B	-0.00006	-0.00005	-0.00004
	A	B	0.00152	0.00203	0.00379
	A	!B	0.00159	0.00197	0.00321
	A	!B	0.00003	0.00003	0.00003
	A	!B	-0.00001	-0.00001	-0.00000
	A	!B	0.00088	0.00125	0.00248
	B	A	0.00046	0.00068	0.00154
	B	A	0.00005	0.00005	0.00005
	B	A	-0.00006	-0.00005	-0.00005
	B	A	0.00146	0.00169	0.00254
	B	!A	0.00179	0.00208	0.00304
	B	!A	0.00001	0.00002	0.00002
	B	!A	-0.00002	-0.00002	-0.00001
	B	!A	0.00134	0.00163	0.00259

Internal switching power(pJ) to Y falling (conditional):

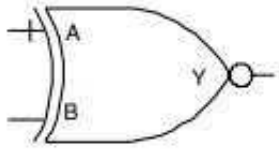
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7L	A	B	0.00173	0.00228	0.00422
	A	B	-0.00003	-0.00003	0.00000
	A	B	0.00006	0.00006	0.00007
	A	B	0.00047	0.00101	0.00295
	A	!B	0.00113	0.00157	0.00296
	A	!B	-0.00003	-0.00002	-0.00000
	A	!B	0.00000	0.00001	0.00002
	A	!B	0.00186	0.00231	0.00370
	B	A	0.00206	0.00231	0.00332
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00005	0.00005	0.00006
	B	A	0.00106	0.00130	0.00231
	B	!A	0.00129	0.00154	0.00240
	B	!A	-0.00002	-0.00001	0.00001
	B	!A	0.00001	0.00002	0.00003
	B	!A	0.00173	0.00198	0.00288

XNOR2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P7H7L	0.00165	0.00085	0.05141

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P7H7L	0.00000	3.20095	4.79977

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7L	A->Y (RR)	B	0.03090	0.15682	0.46814
	A->Y (FR)	!B	0.05568	0.20091	0.56176
	B->Y (RR)	A	0.04550	0.18165	0.51111
	B->Y (FR)	!A	0.06589	0.21329	0.57516

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7L	A->Y (FF)	B	0.04220	0.15254	0.42648
	A->Y (RF)	!B	0.04254	0.13338	0.33159
	B->Y (FF)	A	0.05419	0.17251	0.45560
	B->Y (RF)	!A	0.06862	0.15840	0.35735

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7L	A	B	0.00029	0.00080	0.00258
	A	B	0.00002	0.00003	0.00003
	A	B	-0.00005	-0.00004	-0.00003
	A	B	0.00153	0.00205	0.00383
	A	!B	0.00161	0.00198	0.00323
	A	!B	0.00003	0.00003	0.00008
	A	!B	-0.00001	-0.00001	0.00001
	A	!B	0.00089	0.00126	0.00249
	B	A	0.00047	0.00070	0.00158
	B	A	0.00005	0.00005	0.00005
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00147	0.00170	0.00258
	B	!A	0.00180	0.00209	0.00305
	B	!A	0.00001	0.00001	0.00004
	B	!A	-0.00002	-0.00002	0.00001
	B	!A	0.00135	0.00164	0.00260

Internal switching power(pJ) to Y falling (conditional):

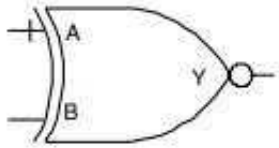
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7L	A	B	0.00176	0.00231	0.00428
	A	B	-0.00003	-0.00003	0.00001
	A	B	0.00006	0.00006	0.00006
	A	B	0.00050	0.00104	0.00301
	A	!B	0.00115	0.00160	0.00299
	A	!B	-0.00002	-0.00001	0.00001
	A	!B	0.00000	0.00001	0.00001
	A	!B	0.00191	0.00235	0.00373
	B	A	0.00209	0.00234	0.00338
	B	A	-0.00005	-0.00005	-0.00004
	B	A	0.00005	0.00005	0.00005
	B	A	0.00108	0.00133	0.00238
	B	!A	0.00131	0.00157	0.00243
	B	!A	-0.00001	-0.00001	0.00001
	B	!A	0.00000	0.00002	0.00002
	B	!A	0.00177	0.00202	0.00291

XNOR2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1H7L	0.00166	0.00085	0.06102

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1H7L	0.00000	3.27159	4.92016

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7L	A->Y (RR)	B	0.03012	0.15702	0.46919
	A->Y (FR)	!B	0.05517	0.20085	0.56184
	B->Y (RR)	A	0.04470	0.18149	0.51207
	B->Y (FR)	!A	0.06533	0.21320	0.57629

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7L	A->Y (FF)	B	0.04219	0.15433	0.43121
	A->Y (RF)	!B	0.04213	0.13451	0.33499
	B->Y (FF)	A	0.05377	0.17367	0.45957
	B->Y (RF)	!A	0.06874	0.15989	0.36096

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7L	A	B	0.00032	0.00084	0.00266
	A	B	0.00002	0.00003	0.00004
	A	B	-0.00005	-0.00004	-0.00003
	A	B	0.00157	0.00209	0.00391
	A	!B	0.00166	0.00204	0.00328
	A	!B	0.00003	0.00003	0.00003
	A	!B	-0.00000	-0.00000	0.00000
	A	!B	0.00093	0.00130	0.00252
	B	A	0.00051	0.00075	0.00167
	B	A	0.00004	0.00004	0.00005
	B	A	-0.00005	-0.00005	-0.00004
	B	A	0.00150	0.00174	0.00266
	B	!A	0.00185	0.00214	0.00315
	B	!A	0.00001	0.00001	0.00001
	B	!A	-0.00001	-0.00001	-0.00000
	B	!A	0.00139	0.00168	0.00264

Internal switching power(pJ) to Y falling (conditional):

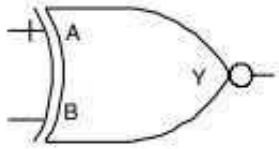
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7L	A	B	0.00181	0.00236	0.00438
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00005	0.00006	0.00006
	A	B	0.00055	0.00109	0.00311
	A	!B	0.00119	0.00163	0.00303
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	0.00000	0.00000	0.00001
	A	!B	0.00196	0.00239	0.00378
	B	A	0.00212	0.00238	0.00347
	B	A	-0.00005	-0.00004	-0.00004
	B	A	0.00005	0.00005	0.00005
	B	A	0.00113	0.00138	0.00248
	B	!A	0.00136	0.00161	0.00248
	B	!A	-0.00001	-0.00001	0.00001
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00182	0.00206	0.00299

XNOR2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1P4H7L	0.00168	0.00087	0.06969

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1P4H7L	0.00000	3.35036	5.05482

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7L	A->Y (RR)	B	0.03014	0.15853	0.47279
	A->Y (FR)	!B	0.05511	0.20142	0.56296
	B->Y (RR)	A	0.04488	0.18273	0.51485
	B->Y (FR)	!A	0.06566	0.21421	0.57739

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7L	A->Y (FF)	B	0.04294	0.15601	0.43332
	A->Y (RF)	!B	0.04196	0.13489	0.33484
	B->Y (FF)	A	0.05433	0.17493	0.46118
	B->Y (RF)	!A	0.06938	0.16100	0.36191

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7L	A	B	0.00036	0.00088	0.00274
	A	B	0.00002	0.00002	0.00003
	A	B	-0.00004	-0.00004	-0.00003
	A	B	0.00162	0.00214	0.00400
	A	!B	0.00169	0.00207	0.00331
	A	!B	0.00002	0.00002	0.00005
	A	!B	-0.00000	0.00000	0.00000
	A	!B	0.00095	0.00132	0.00254
	B	A	0.00055	0.00078	0.00174
	B	A	0.00004	0.00004	0.00004
	B	A	-0.00005	-0.00005	-0.00003
	B	A	0.00154	0.00179	0.00275
	B	!A	0.00190	0.00219	0.00315
	B	!A	-0.00001	0.00001	0.00001
	B	!A	-0.00001	-0.00001	0.00002
	B	!A	0.00140	0.00171	0.00267

Internal switching power(pJ) to Y falling (conditional):

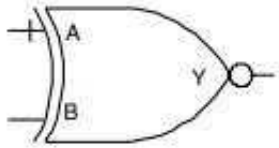
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7L	A	B	0.00188	0.00243	0.00450
	A	B	-0.00002	-0.00002	0.00002
	A	B	0.00005	0.00006	0.00006
	A	B	0.00061	0.00114	0.00322
	A	!B	0.00124	0.00168	0.00309
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	-0.00000	0.00000	0.00003
	A	!B	0.00201	0.00246	0.00386
	B	A	0.00219	0.00246	0.00361
	B	A	-0.00004	-0.00004	-0.00004
	B	A	0.00004	0.00005	0.00005
	B	A	0.00119	0.00145	0.00260
	B	!A	0.00140	0.00166	0.00254
	B	!A	-0.00001	-0.00000	0.00002
	B	!A	-0.00000	0.00001	0.00001
	B	!A	0.00189	0.00214	0.00307

XNOR2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X2H7L	0.00168	0.00087	0.09042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X2H7L	0.00000	3.81576	5.81904

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7L	A->Y (RR)	B	0.03430	0.16762	0.48886
	A->Y (FR)	!B	0.05916	0.20732	0.57082
	B->Y (RR)	A	0.04884	0.18980	0.52687
	B->Y (FR)	!A	0.07025	0.22065	0.58637

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7L	A->Y (FF)	B	0.05005	0.16857	0.45445
	A->Y (RF)	!B	0.04594	0.14265	0.34751
	B->Y (FF)	A	0.05923	0.18419	0.47682
	B->Y (RF)	!A	0.07626	0.17098	0.37529

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7L	A	B	0.00061	0.00114	0.00318
	A	B	0.00002	0.00002	0.00002
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00186	0.00239	0.00443
	A	!B	0.00193	0.00231	0.00353
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00000	0.00001	0.00001
	A	!B	0.00118	0.00156	0.00277
	B	A	0.00080	0.00105	0.00217
	B	A	0.00003	0.00004	0.00004
	B	A	-0.00004	-0.00004	-0.00003
	B	A	0.00179	0.00205	0.00316
	B	!A	0.00215	0.00245	0.00343
	B	!A	0.00000	0.00000	0.00000
	B	!A	-0.00001	-0.00000	-0.00000
	B	!A	0.00167	0.00197	0.00292

Internal switching power(pJ) to Y falling (conditional):

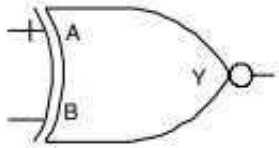
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7L	A	B	0.00220	0.00275	0.00508
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00005	0.00005	0.00005
	A	B	0.00093	0.00148	0.00381
	A	!B	0.00153	0.00198	0.00347
	A	!B	-0.00001	-0.00000	0.00000
	A	!B	-0.00001	-0.00001	0.00000
	A	!B	0.00232	0.00276	0.00424
	B	A	0.00250	0.00279	0.00419
	B	A	-0.00004	-0.00004	-0.00003
	B	A	0.00004	0.00004	0.00004
	B	A	0.00150	0.00178	0.00319
	B	!A	0.00173	0.00198	0.00292
	B	!A	-0.00000	0.00000	0.00002
	B	!A	0.00000	0.00000	0.00001
	B	!A	0.00221	0.00246	0.00340

XNOR2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X3H7L	0.00174	0.00094	0.12736

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X3H7L	0.00000	4.28556	6.51566

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7L	A->Y (RR)	B	0.03381	0.17031	0.49941
	A->Y (FR)	!B	0.05407	0.20180	0.56421
	B->Y (RR)	A	0.04459	0.18377	0.51621
	B->Y (FR)	!A	0.06122	0.21006	0.57238

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7L	A->Y (FF)	B	0.04512	0.16097	0.43706
	A->Y (RF)	!B	0.04485	0.14153	0.34387
	B->Y (FF)	A	0.05449	0.17765	0.46441
	B->Y (RF)	!A	0.06802	0.15926	0.35628

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7L	A	B	0.00080	0.00139	0.00378
	A	B	0.00000	0.00001	0.00001
	A	B	-0.00003	-0.00003	-0.00003
	A	B	0.00209	0.00267	0.00506
	A	!B	0.00218	0.00259	0.00390
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00138	0.00179	0.00310
	B	A	0.00100	0.00132	0.00276
	B	A	0.00003	0.00003	0.00003
	B	A	-0.00004	-0.00004	-0.00003
	B	A	0.00204	0.00237	0.00381
	B	!A	0.00244	0.00282	0.00401
	B	!A	-0.00000	-0.00000	0.00000
	B	!A	-0.00000	-0.00000	0.00000
	B	!A	0.00192	0.00230	0.00348

Internal switching power(pJ) to Y falling (conditional):

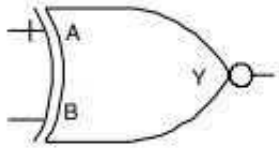
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7L	A	B	0.00243	0.00305	0.00574
	A	B	-0.00001	-0.00001	-0.00000
	A	B	0.00005	0.00005	0.00005
	A	B	0.00112	0.00173	0.00443
	A	!B	0.00175	0.00223	0.00388
	A	!B	-0.00000	0.00000	0.00001
	A	!B	-0.00002	-0.00002	-0.00001
	A	!B	0.00258	0.00306	0.00470
	B	A	0.00276	0.00313	0.00496
	B	A	-0.00003	-0.00003	-0.00003
	B	A	0.00003	0.00004	0.00004
	B	A	0.00171	0.00207	0.00391
	B	!A	0.00198	0.00230	0.00347
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00250	0.00282	0.00399

XNOR2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X4H7L	0.00177	0.00103	0.16382

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X4H7L	0.00000	5.09319	7.81713

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7L	A->Y (RR)	B	0.03639	0.17668	0.51324
	A->Y (FR)	!B	0.05279	0.20056	0.56272
	B->Y (RR)	A	0.04512	0.18376	0.51414
	B->Y (FR)	!A	0.05858	0.20684	0.56836

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7L	A->Y (FF)	B	0.04406	0.15688	0.42213
	A->Y (RF)	!B	0.04633	0.14223	0.33865
	B->Y (FF)	A	0.05420	0.17539	0.45429
	B->Y (RF)	!A	0.06581	0.15301	0.34034

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7L	A	B	0.00108	0.00173	0.00455
	A	B	0.00000	0.00000	0.00001
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00237	0.00302	0.00584
	A	!B	0.00252	0.00296	0.00437
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00171	0.00215	0.00356
	B	A	0.00131	0.00169	0.00350
	B	A	0.00002	0.00003	0.00003
	B	A	-0.00003	-0.00003	-0.00003
	B	A	0.00241	0.00280	0.00460
	B	!A	0.00289	0.00335	0.00480
	B	!A	-0.00001	-0.00001	-0.00001
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00231	0.00277	0.00418

Internal switching power(pJ) to Y falling (conditional):

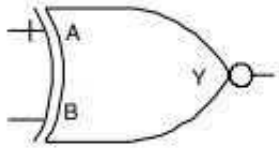
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7L	A	B	0.00278	0.00347	0.00661
	A	B	-0.00000	-0.00000	0.00000
	A	B	0.00005	0.00005	0.00005
	A	B	0.00146	0.00214	0.00529
	A	!B	0.00211	0.00262	0.00448
	A	!B	0.00000	0.00001	0.00003
	A	!B	-0.00003	-0.00003	0.00000
	A	!B	0.00296	0.00347	0.00532
	B	A	0.00319	0.00365	0.00601
	B	A	-0.00003	-0.00003	-0.00002
	B	A	0.00003	0.00003	0.00003
	B	A	0.00208	0.00253	0.00489
	B	!A	0.00236	0.00275	0.00418
	B	!A	0.00001	0.00001	0.00001
	B	!A	-0.00000	-0.00000	-0.00000
	B	!A	0.00293	0.00332	0.00476

XNOR2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X6H7L	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X6H7L	0.00182	0.00147	0.24576

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X6H7L	0.00000	6.60844	10.34150

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7L	A->Y (RR)	B	0.03869	0.18197	0.52255
	A->Y (FR)	!B	0.05654	0.20569	0.56869
	B->Y (RR)	A	0.04649	0.18527	0.51556
	B->Y (FR)	!A	0.06181	0.20928	0.56719

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7L	A->Y (FF)	B	0.05355	0.17464	0.45561
	A->Y (RF)	!B	0.04730	0.14597	0.34511
	B->Y (FF)	A	0.05468	0.17625	0.45419
	B->Y (RF)	!A	0.07469	0.16431	0.35441

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7L	A	B	0.00166	0.00244	0.00621
	A	B	-0.00002	-0.00002	-0.00001
	A	B	-0.00001	-0.00000	0.00000
	A	B	0.00293	0.00372	0.00749
	A	!B	0.00312	0.00364	0.00536
	A	!B	-0.00001	-0.00001	-0.00001
	A	!B	0.00005	0.00005	0.00006
	A	!B	0.00225	0.00276	0.00448
	B	A	0.00185	0.00245	0.00531
	B	A	0.00000	0.00001	0.00001
	B	A	-0.00002	-0.00001	-0.00001
	B	A	0.00324	0.00384	0.00671
	B	!A	0.00370	0.00439	0.00658
	B	!A	-0.00004	-0.00004	-0.00004
	B	!A	0.00003	0.00004	0.00004
	B	!A	0.00275	0.00344	0.00563

Internal switching power(pJ) to Y falling (conditional):

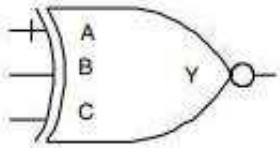
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7L	A	B	0.00342	0.00429	0.00864
	A	B	0.00002	0.00002	0.00002
	A	B	0.00003	0.00003	0.00003
	A	B	0.00211	0.00298	0.00733
	A	!B	0.00272	0.00336	0.00571
	A	!B	0.00003	0.00004	0.00006
	A	!B	-0.00006	-0.00005	-0.00005
	A	!B	0.00364	0.00427	0.00663
	B	A	0.00406	0.00479	0.00845
	B	A	-0.00001	-0.00001	-0.00000
	B	A	0.00001	0.00001	0.00002
	B	A	0.00266	0.00337	0.00705
	B	!A	0.00297	0.00360	0.00596
	B	!A	0.00004	0.00004	0.00008
	B	!A	-0.00004	-0.00003	-0.00003
	B	!A	0.00391	0.00454	0.00691

XNOR3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P5H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P5H7L	0.00164	0.00087	0.00097	0.04513

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P5H7L	0.00000	5.66192	7.13415

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7L	A->Y (-R)	-	0.07977	0.23177	0.60898
	B->Y (-R)	-	0.09696	0.25359	0.63615
	C->Y (RR)	(A * !B) + (!A * B)	0.04906	0.18428	0.51239
	C->Y (FR)	(A * B) + (!A * !B)	0.07620	0.22588	0.59276

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7L	A->Y (-F)	-	0.10392	0.21685	0.48069
	B->Y (-F)	-	0.12111	0.23914	0.50958
	C->Y (FF)	(A * !B) + (!A * B)	0.05620	0.17544	0.46083
	C->Y (RF)	(A * B) + (!A * !B)	0.08124	0.17302	0.37745

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7L	A	-	0.00272	0.00337	0.00543
	A	-	0.00004	0.00007	0.00155
	A	-	0.00001	0.00002	0.00010
	A	-	0.00308	0.00362	0.00540
	B	-	0.00295	0.00330	0.00442
	B	-	0.00006	0.00007	0.00008
	B	-	0.00003	0.00003	0.00004
	B	-	0.00321	0.00347	0.00436
	C	(A * B) + (!A * !B)	0.00215	0.00243	0.00334
	C	(A * B) + (!A * !B)	0.00000	0.00002	0.00003
	C	(A * B) + (!A * !B)	-0.00002	-0.00002	0.00000
	C	(A * B) + (!A * !B)	0.00161	0.00188	0.00279
	C	(A * !B) + (!A * B)	0.00081	0.00103	0.00187
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00005
	C	(A * !B) + (!A * B)	-0.00006	-0.00005	-0.00005
	C	(A * !B) + (!A * B)	0.00161	0.00184	0.00268

Internal switching power(pJ) to Y falling (conditional):

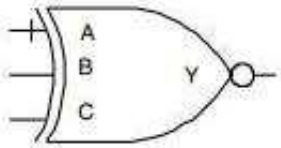
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7L	A	-	0.00315	0.00371	0.00559
	A	-	0.00001	0.00003	0.00004
	A	-	0.00008	0.00009	0.00012
	A	-	0.00274	0.00329	0.00520
	B	-	0.00333	0.00361	0.00454
	B	-	0.00001	0.00002	0.00003
	B	-	0.00008	0.00010	0.00010
	B	-	0.00335	0.00360	0.00448
	C	(A * B) + (!A * !B)	0.00150	0.00174	0.00256
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00002	0.00002
	C	(A * B) + (!A * !B)	0.00206	0.00228	0.00312
	C	(A * !B) + (!A * B)	0.00184	0.00208	0.00309
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00005
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00006
	C	(A * !B) + (!A * B)	0.00104	0.00128	0.00228

XNOR3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P7H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P7H7L	0.00167	0.00087	0.00096	0.05122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P7H7L	0.00000	5.70370	7.20595

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7L	A->Y (-R)	-	0.07966	0.23205	0.60951
	B->Y (-R)	-	0.09713	0.25433	0.63762
	C->Y (RR)	(A * !B) + (!A * B)	0.04806	0.18367	0.51245
	C->Y (FR)	(A * B) + (!A * !B)	0.07540	0.22539	0.59250

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7L	A->Y (-F)	-	0.10392	0.21675	0.47920
	B->Y (-F)	-	0.12137	0.23949	0.50886
	C->Y (FF)	(A * !B) + (!A * B)	0.05524	0.17440	0.45866
	C->Y (RF)	(A * B) + (!A * !B)	0.08089	0.17249	0.37527

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7L	A	-	0.00279	0.00341	0.00547
	A	-	0.00008	0.00008	0.00008
	A	-	0.00001	0.00002	0.00003
	A	-	0.00310	0.00364	0.00543
	B	-	0.00301	0.00336	0.00449
	B	-	0.00006	0.00007	0.00007
	B	-	0.00000	0.00003	0.00005
	B	-	0.00323	0.00349	0.00437
	C	(A * B) + (!A * !B)	0.00217	0.00244	0.00337
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	-0.00000
	C	(A * B) + (!A * !B)	0.00163	0.00190	0.00281
	C	(A * !B) + (!A * B)	0.00084	0.00106	0.00193
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00005
	C	(A * !B) + (!A * B)	-0.00006	-0.00005	-0.00002
	C	(A * !B) + (!A * B)	0.00163	0.00185	0.00272

Internal switching power(pJ) to Y falling (conditional):

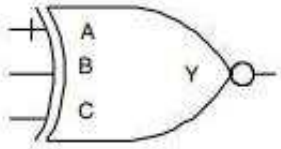
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7L	A	-	0.00318	0.00375	0.00563
	A	-	0.00003	0.00003	0.00003
	A	-	0.00005	0.00008	0.00012
	A	-	0.00278	0.00333	0.00524
	B	-	0.00340	0.00367	0.00460
	B	-	0.00002	0.00002	0.00003
	B	-	0.00008	0.00010	0.00012
	B	-	0.00337	0.00362	0.00451
	C	(A * B) + (!A * !B)	0.00154	0.00177	0.00260
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	-0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00209	0.00232	0.00318
	C	(A * !B) + (!A * B)	0.00184	0.00209	0.00313
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00004
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00006
	C	(A * !B) + (!A * B)	0.00105	0.00130	0.00234

XNOR3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1H7L	0.00167	0.00088	0.00096	0.06094

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1H7L	0.00000	5.77434	7.32634

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7L	A->Y (-R)	-	0.08100	0.23433	0.61313
	B->Y (-R)	-	0.09845	0.25658	0.64189
	C->Y (RR)	(A * !B) + (!A * B)	0.04906	0.18629	0.51760
	C->Y (FR)	(A * B) + (!A * !B)	0.07537	0.22601	0.59349

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7L	A->Y (-F)	-	0.10592	0.22056	0.48552
	B->Y (-F)	-	0.12335	0.24327	0.51509
	C->Y (FF)	(A * !B) + (!A * B)	0.05707	0.17870	0.46722
	C->Y (RF)	(A * B) + (!A * !B)	0.08180	0.17502	0.37983

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7L	A	-	0.00286	0.00348	0.00555
	A	-	0.00007	0.00007	0.00008
	A	-	0.00002	0.00002	0.00004
	A	-	0.00318	0.00374	0.00553
	B	-	0.00308	0.00343	0.00458
	B	-	0.00006	0.00006	0.00007
	B	-	0.00001	0.00004	0.00007
	B	-	0.00330	0.00355	0.00445
	C	(A * B) + (!A * !B)	0.00223	0.00251	0.00345
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00001
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00170	0.00198	0.00289
	C	(A * !B) + (!A * B)	0.00092	0.00115	0.00204
	C	(A * !B) + (!A * B)	0.00003	0.00004	0.00004
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00004
	C	(A * !B) + (!A * B)	0.00171	0.00194	0.00283

Internal switching power(pJ) to Y falling (conditional):

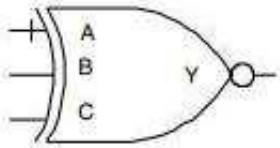
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7L	A	-	0.00329	0.00385	0.00574
	A	-	0.00002	0.00004	0.00006
	A	-	0.00007	0.00008	0.00009
	A	-	0.00289	0.00343	0.00531
	B	-	0.00351	0.00378	0.00471
	B	-	0.00002	0.00003	0.00005
	B	-	0.00009	0.00010	0.00011
	B	-	0.00347	0.00372	0.00462
	C	(A * B) + (!A * !B)	0.00163	0.00186	0.00270
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00216	0.00239	0.00324
	C	(A * !B) + (!A * B)	0.00197	0.00222	0.00331
	C	(A * !B) + (!A * B)	-0.00004	-0.00004	-0.00003
	C	(A * !B) + (!A * B)	0.00004	0.00005	0.00005
	C	(A * !B) + (!A * B)	0.00118	0.00143	0.00252

XNOR3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1P4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1P4H7L	0.00167	0.00092	0.00099	0.07148

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1P4H7L	0.00000	5.91834	7.57310

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7L	A->Y (-R)	-	0.07976	0.23359	0.61197
	B->Y (-R)	-	0.09415	0.25172	0.63409
	C->Y (RR)	(A * !B) + (!A * B)	0.04900	0.18722	0.51998
	C->Y (FR)	(A * B) + (!A * !B)	0.07542	0.22675	0.59538

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7L	A->Y (-F)	-	0.10521	0.21948	0.48090
	B->Y (-F)	-	0.11958	0.23830	0.50495
	C->Y (FF)	(A * !B) + (!A * B)	0.05710	0.17894	0.46630
	C->Y (RF)	(A * B) + (!A * !B)	0.08233	0.17551	0.37818

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7L	A	-	0.00291	0.00354	0.00563
	A	-	0.00007	0.00007	0.00007
	A	-	0.00001	0.00002	0.00005
	A	-	0.00324	0.00379	0.00560
	B	-	0.00316	0.00353	0.00476
	B	-	0.00000	0.00003	0.00017
	B	-	0.00004	0.00004	0.00005
	B	-	0.00337	0.00368	0.00473
	C	(A * B) + (!A * !B)	0.00229	0.00257	0.00352
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00001
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00172	0.00202	0.00294
	C	(A * !B) + (!A * B)	0.00097	0.00121	0.00215
	C	(A * !B) + (!A * B)	0.00004	0.00004	0.00004
	C	(A * !B) + (!A * B)	-0.00005	-0.00004	-0.00004
	C	(A * !B) + (!A * B)	0.00177	0.00200	0.00295

Internal switching power(pJ) to Y falling (conditional):

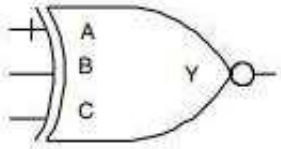
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7L	A	-	0.00336	0.00393	0.00582
	A	-	0.00003	0.00004	0.00006
	A	-	0.00005	0.00008	0.00012
	A	-	0.00296	0.00350	0.00541
	B	-	0.00360	0.00390	0.00493
	B	-	-0.00002	-0.00002	0.00010
	B	-	0.00007	0.00010	0.00012
	B	-	0.00356	0.00385	0.00483
	C	(A * B) + (!A * !B)	0.00169	0.00193	0.00279
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00001
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00224	0.00248	0.00334
	C	(A * !B) + (!A * B)	0.00203	0.00230	0.00346
	C	(A * !B) + (!A * B)	-0.00004	-0.00004	-0.00004
	C	(A * !B) + (!A * B)	0.00004	0.00005	0.00006
	C	(A * !B) + (!A * B)	0.00124	0.00150	0.00267

XNOR3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X2H7L	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X2H7L	0.00167	0.00095	0.00098	0.09024

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X2H7L	0.00000	6.40862	8.38120

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7L	A->Y (-R)	-	0.08376	0.23930	0.61943
	B->Y (-R)	-	0.09577	0.25412	0.63661
	C->Y (RR)	(A * !B) + (!A * B)	0.05259	0.19395	0.53182
	C->Y (FR)	(A * B) + (!A * !B)	0.07973	0.23289	0.60323

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7L	A->Y (-F)	-	0.11037	0.22827	0.49372
	B->Y (-F)	-	0.12236	0.24402	0.51390
	C->Y (FF)	(A * !B) + (!A * B)	0.06177	0.18851	0.48381
	C->Y (RF)	(A * B) + (!A * !B)	0.08879	0.18581	0.39383

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7L	A	-	0.00312	0.00375	0.00590
	A	-	0.00005	0.00006	0.00008
	A	-	0.00000	0.00003	0.00004
	A	-	0.00343	0.00398	0.00581
	B	-	0.00335	0.00377	0.00514
	B	-	0.00002	0.00007	0.00228
	B	-	0.00000	0.00001	0.00015
	B	-	0.00361	0.00396	0.00503
	C	(A * B) + (!A * !B)	0.00250	0.00279	0.00373
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00000
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00196	0.00224	0.00316
	C	(A * !B) + (!A * B)	0.00118	0.00142	0.00252
	C	(A * !B) + (!A * B)	0.00003	0.00004	0.00004
	C	(A * !B) + (!A * B)	-0.00005	-0.00004	-0.00004
	C	(A * !B) + (!A * B)	0.00196	0.00221	0.00330

Internal switching power(pJ) to Y falling (conditional):

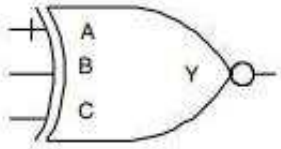
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7L	A	-	0.00366	0.00424	0.00619
	A	-	0.00004	0.00004	0.00005
	A	-	0.00007	0.00007	0.00011
	A	-	0.00327	0.00382	0.00580
	B	-	0.00391	0.00425	0.00544
	B	-	0.00004	0.00004	0.00004
	B	-	0.00008	0.00009	0.00010
	B	-	0.00391	0.00423	0.00535
	C	(A * B) + (!A * !B)	0.00200	0.00224	0.00317
	C	(A * B) + (!A * !B)	-0.00000	0.00000	0.00002
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00003
	C	(A * B) + (!A * !B)	0.00255	0.00279	0.00372
	C	(A * !B) + (!A * B)	0.00235	0.00263	0.00404
	C	(A * !B) + (!A * B)	-0.00004	-0.00004	-0.00003
	C	(A * !B) + (!A * B)	0.00004	0.00004	0.00005
	C	(A * !B) + (!A * B)	0.00157	0.00185	0.00326

XNOR3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X3H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X3H7L	0.00175	0.00100	0.00097	0.12748

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X3H7L	0.00000	7.25593	9.56348

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7L	A->Y (-R)	-	0.07282	0.22792	0.60864
	B->Y (-R)	-	0.08636	0.24387	0.62535
	C->Y (RR)	(A * !B) + (!A * B)	0.04383	0.18217	0.51385
	C->Y (FR)	(A * B) + (!A * !B)	0.06751	0.21947	0.58899

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7L	A->Y (-F)	-	0.09458	0.21051	0.47442
	B->Y (-F)	-	0.10824	0.22730	0.49305
	C->Y (FF)	(A * !B) + (!A * B)	0.05107	0.17382	0.46042
	C->Y (RF)	(A * B) + (!A * !B)	0.07444	0.16842	0.37123

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7L	A	-	0.00345	0.00423	0.00683
	A	-	0.00007	0.00008	0.00014
	A	-	0.00004	0.00004	0.00005
	A	-	0.00386	0.00452	0.00667
	B	-	0.00375	0.00419	0.00575
	B	-	0.00004	0.00006	0.00006
	B	-	0.00006	0.00006	0.00010
	B	-	0.00402	0.00437	0.00555
	C	(A * B) + (!A * !B)	0.00279	0.00315	0.00431
	C	(A * B) + (!A * !B)	-0.00000	0.00000	0.00007
	C	(A * B) + (!A * !B)	-0.00000	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00226	0.00259	0.00374
	C	(A * !B) + (!A * B)	0.00138	0.00170	0.00312
	C	(A * !B) + (!A * B)	0.00000	0.00003	0.00004
	C	(A * !B) + (!A * B)	-0.00004	-0.00004	-0.00004
	C	(A * !B) + (!A * B)	0.00215	0.00247	0.00389

Internal switching power(pJ) to Y falling (conditional):

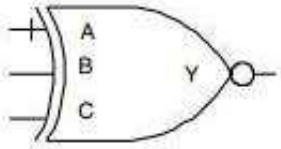
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7L	A	-	0.00372	0.00442	0.00675
	A	-	0.00005	0.00006	0.00008
	A	-	0.00005	0.00008	0.00010
	A	-	0.00352	0.00418	0.00655
	B	-	0.00399	0.00436	0.00566
	B	-	0.00002	0.00005	0.00011
	B	-	0.00007	0.00011	0.00014
	B	-	0.00404	0.00440	0.00562
	C	(A * B) + (!A * !B)	0.00204	0.00234	0.00346
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00004
	C	(A * B) + (!A * !B)	-0.00000	0.00000	0.00001
	C	(A * B) + (!A * !B)	0.00260	0.00290	0.00402
	C	(A * !B) + (!A * B)	0.00234	0.00270	0.00449
	C	(A * !B) + (!A * B)	-0.00004	-0.00003	0.00000
	C	(A * !B) + (!A * B)	0.00004	0.00004	0.00004
	C	(A * !B) + (!A * B)	0.00156	0.00192	0.00371

XNOR3X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X4H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X4H7L	0.00217	0.00103	0.00109	0.16388

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X4H7L	0.00000	8.57115	11.44090

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7L	A->Y (-R)	-	0.07580	0.22938	0.60687
	B->Y (-R)	-	0.08862	0.24692	0.62984
	C->Y (RR)	(A * !B) + (!A * B)	0.04417	0.18248	0.51307
	C->Y (FR)	(A * B) + (!A * !B)	0.06497	0.21632	0.58446

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7L	A->Y (-F)	-	0.09539	0.20726	0.46003
	B->Y (-F)	-	0.10832	0.22561	0.48459
	C->Y (FF)	(A * !B) + (!A * B)	0.05118	0.17214	0.45179
	C->Y (RF)	(A * B) + (!A * !B)	0.07322	0.16332	0.35510

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7L	A	-	0.00422	0.00515	0.00832
	A	-	0.00008	0.00009	0.00026
	A	-	-0.00009	0.00011	0.00824
	A	-	-0.00309	0.00525	0.00805
	B	-	0.00445	0.00495	0.00672
	B	-	0.00001	0.00001	0.00008
	B	-	0.00008	0.00008	0.00015
	B	-	0.00472	0.00512	0.00640
	C	(A * B) + (!A * !B)	0.00331	0.00373	0.00511
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00266	0.00307	0.00446
	C	(A * !B) + (!A * B)	0.00174	0.00213	0.00390
	C	(A * !B) + (!A * B)	0.00003	0.00004	0.00004
	C	(A * !B) + (!A * B)	-0.00005	-0.00004	-0.00002
	C	(A * !B) + (!A * B)	0.00261	0.00300	0.00477

Internal switching power(pJ) to Y falling (conditional):

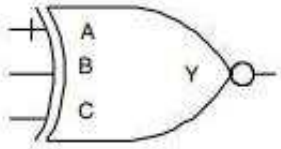
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7L	A	-	0.00456	0.00542	0.00829
	A	-	0.00008	0.00008	0.00008
	A	-	0.00009	0.00010	0.00014
	A	-	0.00429	0.00512	0.00808
	B	-	0.00478	0.00520	0.00667
	B	-	0.00005	0.00006	0.00007
	B	-	0.00011	0.00012	0.00014
	B	-	0.00487	0.00524	0.00660
	C	(A * B) + (!A * !B)	0.00257	0.00292	0.00430
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00001
	C	(A * B) + (!A * !B)	-0.00000	-0.00000	-0.00000
	C	(A * B) + (!A * !B)	0.00320	0.00357	0.00496
	C	(A * !B) + (!A * B)	0.00285	0.00329	0.00559
	C	(A * !B) + (!A * B)	-0.00004	-0.00004	-0.00003
	C	(A * !B) + (!A * B)	0.00004	0.00004	0.00006
	C	(A * !B) + (!A * B)	0.00197	0.00242	0.00471

XNOR3X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X6H7L	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X6H7L	0.00216	0.00103	0.00110	0.24581

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X6H7L	0.00000	9.53953	13.05780

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7L	A->Y (-R)	-	0.08273	0.23864	0.61890
	B->Y (-R)	-	0.09555	0.25597	0.64194
	C->Y (RR)	(A * !B) + (!A * B)	0.04975	0.19251	0.53007
	C->Y (FR)	(A * B) + (!A * !B)	0.07113	0.22472	0.59521

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7L	A->Y (-F)	-	0.10433	0.22049	0.47749
	B->Y (-F)	-	0.11724	0.23877	0.50223
	C->Y (FF)	(A * !B) + (!A * B)	0.05867	0.18623	0.47570
	C->Y (RF)	(A * B) + (!A * !B)	0.08326	0.17782	0.37439

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7L	A	-	0.00478	0.00576	0.00918
	A	-	0.00002	0.00006	0.00014
	A	-	0.00004	0.00008	0.00017
	A	-	0.00508	0.00592	0.00865
	B	-	0.00502	0.00555	0.00756
	B	-	0.00004	0.00004	0.00004
	B	-	0.00003	0.00011	0.00019
	B	-	0.00523	0.00568	0.00709
	C	(A * B) + (!A * !B)	0.00391	0.00436	0.00590
	C	(A * B) + (!A * !B)	-0.00004	-0.00003	0.00004
	C	(A * B) + (!A * !B)	0.00000	0.00003	0.00003
	C	(A * B) + (!A * !B)	0.00322	0.00365	0.00519
	C	(A * !B) + (!A * B)	0.00233	0.00276	0.00515
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00002
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	-0.00000
	C	(A * !B) + (!A * B)	0.00315	0.00359	0.00597

Internal switching power(pJ) to Y falling (conditional):

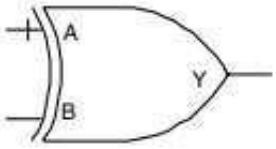
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7L	A	-	0.00517	0.00610	0.00925
	A	-	0.00011	0.00011	0.00011
	A	-	0.00006	0.00006	0.00009
	A	-	0.00497	0.00584	0.00913
	B	-	0.00540	0.00588	0.00763
	B	-	0.00009	0.00009	0.00011
	B	-	0.00008	0.00009	0.00009
	B	-	0.00552	0.00598	0.00763
	C	(A * B) + (!A * !B)	0.00319	0.00363	0.00532
	C	(A * B) + (!A * !B)	0.00003	0.00004	0.00008
	C	(A * B) + (!A * !B)	-0.00003	-0.00003	0.00000
	C	(A * B) + (!A * !B)	0.00390	0.00434	0.00603
	C	(A * !B) + (!A * B)	0.00350	0.00406	0.00726
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	-0.00001
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00003
	C	(A * !B) + (!A * B)	0.00266	0.00323	0.00643

XOR2X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P5H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P5H7L	0.00164	0.00086	0.04520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P5H7L	0.00000	3.15917	3.85919

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7L	A->Y (RR)	!B	0.03597	0.16077	0.47008
	A->Y (FR)	B	0.04856	0.19415	0.55159
	B->Y (RR)	!A	0.04744	0.18179	0.50835
	B->Y (FR)	A	0.06604	0.21257	0.57313

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7L	A->Y (FF)	!B	0.03574	0.14612	0.42090
	A->Y (RF)	B	0.06052	0.14618	0.34334
	B->Y (FF)	!A	0.05264	0.17092	0.45455
	B->Y (RF)	A	0.07013	0.15924	0.35841

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7L	A	B	0.00158	0.00205	0.00347
	A	B	0.00000	0.00001	0.00002
	A	B	-0.00003	-0.00002	-0.00002
	A	B	0.00084	0.00130	0.00273
	A	!B	0.00049	0.00099	0.00272
	A	!B	0.00006	0.00006	0.00008
	A	!B	-0.00004	-0.00003	-0.00003
	A	!B	0.00175	0.00225	0.00399
	B	A	0.00169	0.00198	0.00295
	B	A	0.00001	0.00002	0.00002
	B	A	-0.00002	-0.00002	-0.00001
	B	A	0.00126	0.00155	0.00251
	B	!A	0.00081	0.00103	0.00190
	B	!A	0.00005	0.00005	0.00005
	B	!A	-0.00006	-0.00005	-0.00005
	B	!A	0.00180	0.00203	0.00289

Internal switching power(pJ) to Y falling (conditional):

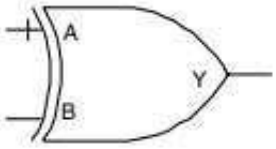
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7L	A	B	0.00115	0.00144	0.00247
	A	B	-0.00001	-0.00000	0.00001
	A	B	0.00004	0.00004	0.00006
	A	B	0.00186	0.00215	0.00319
	A	!B	0.00149	0.00205	0.00401
	A	!B	-0.00006	-0.00004	-0.00003
	A	!B	0.00003	0.00003	0.00004
	A	!B	0.00025	0.00081	0.00277
	B	A	0.00137	0.00162	0.00249
	B	A	-0.00002	-0.00001	0.00001
	B	A	0.00001	0.00002	0.00004
	B	A	0.00181	0.00206	0.00297
	B	!A	0.00167	0.00192	0.00293
	B	!A	-0.00005	-0.00005	-0.00004
	B	!A	0.00005	0.00005	0.00006
	B	!A	0.00067	0.00092	0.00193

XOR2X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P7H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P7H7L	0.00164	0.00087	0.05146

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P7H7L	0.00000	3.20095	3.93098

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7L	A->Y (RR)	!B	0.03506	0.16094	0.47269
	A->Y (FR)	B	0.04775	0.19412	0.55289
	B->Y (RR)	!A	0.04720	0.18276	0.51174
	B->Y (FR)	A	0.06582	0.21325	0.57553

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7L	A->Y (FF)	!B	0.03510	0.14589	0.42054
	A->Y (RF)	B	0.06004	0.14582	0.34202
	B->Y (FF)	!A	0.05276	0.17163	0.45557
	B->Y (RF)	A	0.06985	0.15943	0.35835

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7L	A	B	0.00161	0.00207	0.00349
	A	B	0.00000	0.00000	0.00001
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00085	0.00132	0.00274
	A	!B	0.00051	0.00101	0.00277
	A	!B	0.00006	0.00006	0.00006
	A	!B	-0.00003	-0.00003	0.00001
	A	!B	0.00174	0.00226	0.00403
	B	A	0.00174	0.00204	0.00300
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00002	-0.00002	0.00000
	B	A	0.00129	0.00158	0.00254
	B	!A	0.00083	0.00106	0.00194
	B	!A	0.00005	0.00005	0.00005
	B	!A	-0.00005	-0.00005	-0.00005
	B	!A	0.00182	0.00205	0.00293

Internal switching power(pJ) to Y falling (conditional):

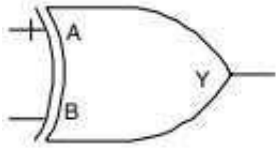
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7L	A	B	0.00117	0.00146	0.00249
	A	B	-0.00000	-0.00000	0.00001
	A	B	0.00003	0.00003	0.00006
	A	B	0.00189	0.00218	0.00322
	A	!B	0.00153	0.00208	0.00407
	A	!B	-0.00005	-0.00004	-0.00004
	A	!B	0.00003	0.00003	0.00004
	A	!B	0.00028	0.00084	0.00283
	B	A	0.00139	0.00164	0.00250
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00000	0.00002	0.00002
	B	A	0.00184	0.00209	0.00298
	B	!A	0.00173	0.00198	0.00302
	B	!A	-0.00005	-0.00005	-0.00004
	B	!A	0.00005	0.00005	0.00005
	B	!A	0.00074	0.00098	0.00203

XOR2X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1H7L	0.00163	0.00087	0.06115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1H7L	0.00000	3.27159	4.05138

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7L	A->Y (RR)	!B	0.03449	0.16148	0.47514
	A->Y (FR)	B	0.04679	0.19369	0.55258
	B->Y (RR)	!A	0.04657	0.18301	0.51338
	B->Y (FR)	A	0.06526	0.21329	0.57606

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7L	A->Y (FF)	!B	0.03489	0.14767	0.42574
	A->Y (RF)	B	0.05980	0.14705	0.34580
	B->Y (FF)	!A	0.05258	0.17325	0.46028
	B->Y (RF)	A	0.06994	0.16100	0.36216

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7L	A	B	0.00164	0.00211	0.00353
	A	B	-0.00000	0.00000	0.00001
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00089	0.00136	0.00279
	A	!B	0.00056	0.00106	0.00287
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00180	0.00230	0.00411
	B	A	0.00179	0.00208	0.00305
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00133	0.00163	0.00258
	B	!A	0.00087	0.00111	0.00203
	B	!A	0.00004	0.00004	0.00004
	B	!A	-0.00005	-0.00005	-0.00005
	B	!A	0.00187	0.00210	0.00302

Internal switching power(pJ) to Y falling (conditional):

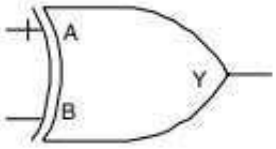
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7L	A	B	0.00121	0.00151	0.00255
	A	B	-0.00000	0.00000	0.00003
	A	B	0.00002	0.00003	0.00005
	A	B	0.00193	0.00222	0.00329
	A	!B	0.00155	0.00212	0.00415
	A	!B	-0.00004	-0.00004	-0.00002
	A	!B	0.00002	0.00003	0.00004
	A	!B	0.00032	0.00089	0.00293
	B	A	0.00142	0.00168	0.00255
	B	A	-0.00001	-0.00001	0.00001
	B	A	0.00000	0.00001	0.00001
	B	A	0.00189	0.00214	0.00307
	B	!A	0.00178	0.00203	0.00313
	B	!A	-0.00004	-0.00004	-0.00004
	B	!A	0.00005	0.00005	0.00005
	B	!A	0.00078	0.00104	0.00213

XOR2X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1P4H7L	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1P4H7L	0.00163	0.00087	0.06968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1P4H7L	0.00000	3.35036	4.18604

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7L	A->Y (RR)	!B	0.03426	0.16212	0.47592
	A->Y (FR)	B	0.04649	0.19387	0.55349
	B->Y (RR)	!A	0.04632	0.18338	0.51459
	B->Y (FR)	A	0.06515	0.21354	0.57637

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7L	A->Y (FF)	!B	0.03477	0.14807	0.42581
	A->Y (RF)	B	0.06000	0.14743	0.34477
	B->Y (FF)	!A	0.05243	0.17344	0.46012
	B->Y (RF)	A	0.07016	0.16137	0.36161

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7L	A	B	0.00167	0.00215	0.00358
	A	B	-0.00001	-0.00000	0.00001
	A	B	-0.00003	-0.00001	0.00002
	A	B	0.00092	0.00140	0.00284
	A	!B	0.00060	0.00111	0.00296
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00003	-0.00003	0.00001
	A	!B	0.00181	0.00235	0.00420
	B	A	0.00183	0.00213	0.00308
	B	A	0.00000	0.00001	0.00001
	B	A	-0.00001	-0.00001	0.00001
	B	A	0.00136	0.00167	0.00262
	B	!A	0.00092	0.00115	0.00211
	B	!A	0.00004	0.00004	0.00005
	B	!A	-0.00005	-0.00005	-0.00004
	B	!A	0.00190	0.00214	0.00310

Internal switching power(pJ) to Y falling (conditional):

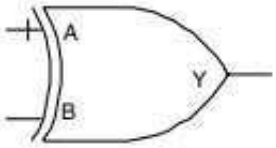
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7L	A	B	0.00125	0.00155	0.00260
	A	B	0.00000	0.00001	0.00004
	A	B	0.00001	0.00003	0.00004
	A	B	0.00198	0.00227	0.00332
	A	!B	0.00158	0.00215	0.00424
	A	!B	-0.00004	-0.00003	-0.00003
	A	!B	0.00002	0.00003	0.00004
	A	!B	0.00036	0.00092	0.00301
	B	A	0.00147	0.00172	0.00260
	B	A	-0.00001	-0.00001	0.00001
	B	A	0.00001	0.00001	0.00002
	B	A	0.00193	0.00218	0.00311
	B	!A	0.00181	0.00207	0.00323
	B	!A	-0.00005	-0.00004	-0.00003
	B	!A	0.00004	0.00005	0.00005
	B	!A	0.00082	0.00108	0.00224

XOR2X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X2H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X2H7L	0.00164	0.00087	0.09036

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X2H7L	0.00000	3.81576	4.95026

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7L	A->Y (RR)	!B	0.03944	0.17225	0.49302
	A->Y (FR)	B	0.05011	0.19965	0.56220
	B->Y (RR)	!A	0.05057	0.19082	0.52668
	B->Y (FR)	A	0.07045	0.22081	0.58618

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7L	A->Y (FF)	!B	0.04040	0.15993	0.44728
	A->Y (RF)	B	0.06690	0.15788	0.35873
	B->Y (FF)	!A	0.05761	0.18309	0.47629
	B->Y (RF)	A	0.07798	0.17256	0.37679

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7L	A	B	0.00192	0.00239	0.00385
	A	B	-0.00001	-0.00001	0.00000
	A	B	-0.00002	-0.00001	0.00000
	A	B	0.00114	0.00162	0.00310
	A	!B	0.00086	0.00137	0.00341
	A	!B	0.00004	0.00005	0.00005
	A	!B	-0.00002	-0.00002	0.00003
	A	!B	0.00206	0.00261	0.00465
	B	A	0.00209	0.00239	0.00336
	B	A	0.00000	0.00000	0.00000
	B	A	-0.00000	-0.00000	-0.00000
	B	A	0.00163	0.00193	0.00288
	B	!A	0.00116	0.00141	0.00253
	B	!A	0.00003	0.00004	0.00004
	B	!A	-0.00004	-0.00004	-0.00004
	B	!A	0.00214	0.00239	0.00351

Internal switching power(pJ) to Y falling (conditional):

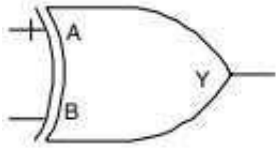
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7L	A	B	0.00159	0.00188	0.00297
	A	B	0.00000	0.00001	0.00003
	A	B	0.00002	0.00002	0.00003
	A	B	0.00233	0.00262	0.00371
	A	!B	0.00192	0.00249	0.00479
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00001	0.00002	0.00003
	A	!B	0.00070	0.00127	0.00357
	B	A	0.00182	0.00207	0.00301
	B	A	-0.00000	-0.00000	0.00000
	B	A	0.00000	0.00000	0.00000
	B	A	0.00229	0.00254	0.00348
	B	!A	0.00214	0.00243	0.00383
	B	!A	-0.00004	-0.00004	-0.00003
	B	!A	0.00004	0.00004	0.00004
	B	!A	0.00116	0.00144	0.00285

XOR2X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X3H7L	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X3H7L	0.00172	0.00097	0.12738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X3H7L	0.00000	4.34333	5.66971

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7L	A->Y (RR)	!B	0.03331	0.16313	0.47579
	A->Y (FR)	B	0.04818	0.19848	0.56198
	B->Y (RR)	!A	0.04582	0.18371	0.51442
	B->Y (FR)	A	0.05918	0.20725	0.56842

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7L	A->Y (FF)	!B	0.03933	0.16023	0.45143
	A->Y (RF)	B	0.05785	0.14622	0.34140
	B->Y (FF)	!A	0.05109	0.17372	0.45904
	B->Y (RF)	A	0.06647	0.15681	0.35287

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7L	A	B	0.00218	0.00271	0.00435
	A	B	-0.00002	-0.00002	0.00000
	A	B	-0.00002	-0.00000	0.00000
	A	B	0.00138	0.00191	0.00357
	A	!B	0.00105	0.00164	0.00402
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00002	-0.00001	-0.00001
	A	!B	0.00234	0.00294	0.00532
	B	A	0.00240	0.00279	0.00405
	B	A	-0.00000	-0.00000	0.00000
	B	A	-0.00000	-0.00000	0.00004
	B	A	0.00184	0.00227	0.00352
	B	!A	0.00139	0.00172	0.00319
	B	!A	0.00003	0.00003	0.00004
	B	!A	-0.00004	-0.00004	-0.00004
	B	!A	0.00245	0.00278	0.00426

Internal switching power(pJ) to Y falling (conditional):

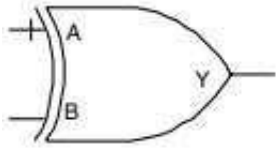
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7L	A	B	0.00180	0.00212	0.00335
	A	B	0.00000	0.00002	0.00004
	A	B	0.00002	0.00003	0.00003
	A	B	0.00256	0.00288	0.00411
	A	!B	0.00212	0.00277	0.00548
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00085	0.00149	0.00421
	B	A	0.00203	0.00241	0.00362
	B	A	0.00000	0.00000	0.00006
	B	A	0.00000	0.00000	0.00000
	B	A	0.00260	0.00293	0.00414
	B	!A	0.00239	0.00277	0.00463
	B	!A	-0.00004	-0.00003	-0.00003
	B	!A	0.00004	0.00004	0.00004
	B	!A	0.00133	0.00170	0.00357

XOR2X4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X4H7L	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X4H7L	0.00173	0.00103	0.16398

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X4H7L	0.00000	5.09319	6.89991

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7L	A->Y (RR)	!B	0.03299	0.16330	0.47447
	A->Y (FR)	B	0.05068	0.20254	0.56834
	B->Y (RR)	!A	0.04667	0.18438	0.51348
	B->Y (FR)	A	0.05759	0.20573	0.56741

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7L	A->Y (FF)	!B	0.04208	0.16377	0.45469
	A->Y (RF)	B	0.05888	0.14542	0.33321
	B->Y (FF)	!A	0.05167	0.17302	0.45223
	B->Y (RF)	A	0.06630	0.15311	0.34018

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7L	A	B	0.00249	0.00303	0.00477
	A	B	-0.00003	-0.00003	-0.00002
	A	B	-0.00001	0.00001	0.00001
	A	B	0.00165	0.00220	0.00396
	A	!B	0.00135	0.00198	0.00468
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00000	-0.00000	0.00000
	A	!B	0.00264	0.00327	0.00596
	B	A	0.00275	0.00321	0.00467
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00000	0.00000	0.00005
	B	A	0.00214	0.00264	0.00407
	B	!A	0.00168	0.00207	0.00388
	B	!A	0.00003	0.00003	0.00003
	B	!A	-0.00004	-0.00003	-0.00003
	B	!A	0.00277	0.00316	0.00497

Internal switching power(pJ) to Y falling (conditional):

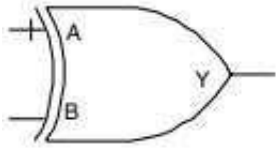
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7L	A	B	0.00216	0.00249	0.00381
	A	B	0.00003	0.00003	0.00003
	A	B	0.00002	0.00002	0.00002
	A	B	0.00294	0.00328	0.00460
	A	!B	0.00243	0.00314	0.00624
	A	!B	-0.00003	-0.00002	0.00002
	A	!B	0.00000	0.00000	0.00001
	A	!B	0.00117	0.00187	0.00497
	B	A	0.00247	0.00285	0.00430
	B	A	0.00000	0.00001	0.00001
	B	A	-0.00000	-0.00000	-0.00000
	B	A	0.00304	0.00342	0.00487
	B	!A	0.00274	0.00321	0.00557
	B	!A	-0.00003	-0.00003	-0.00003
	B	!A	0.00003	0.00003	0.00004
	B	!A	0.00166	0.00212	0.00448

XOR2X6H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X6H7L	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X6H7L	0.00179	0.00147	0.24570

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X6H7L	0.00000	6.63180	9.38768

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7L	A->Y (RR)	!B	0.03874	0.17574	0.49902
	A->Y (FR)	B	0.05084	0.20328	0.56851
	B->Y (RR)	!A	0.04783	0.18560	0.51436
	B->Y (FR)	A	0.06097	0.20834	0.56629

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7L	A->Y (FF)	!B	0.04505	0.17023	0.46619
	A->Y (RF)	B	0.06706	0.15698	0.34744
	B->Y (FF)	!A	0.05197	0.17369	0.45189
	B->Y (RF)	A	0.07513	0.16454	0.35443

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7L	A	B	0.00303	0.00368	0.00578
	A	B	-0.00006	-0.00006	-0.00002
	A	B	0.00002	0.00003	0.00008
	A	B	0.00211	0.00276	0.00489
	A	!B	0.00190	0.00266	0.00630
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00318	0.00395	0.00759
	B	A	0.00354	0.00422	0.00643
	B	A	-0.00004	-0.00004	-0.00004
	B	A	0.00003	0.00004	0.00004
	B	A	0.00259	0.00328	0.00548
	B	!A	0.00221	0.00281	0.00567
	B	!A	0.00001	0.00001	0.00001
	B	!A	-0.00002	-0.00001	-0.00001
	B	!A	0.00359	0.00419	0.00705

Internal switching power(pJ) to Y falling (conditional):

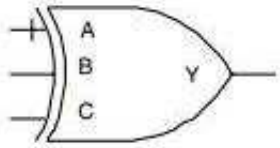
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7L	A	B	0.00277	0.00321	0.00495
	A	B	0.00006	0.00006	0.00010
	A	B	-0.00001	-0.00001	-0.00000
	A	B	0.00362	0.00407	0.00582
	A	!B	0.00311	0.00395	0.00799
	A	!B	-0.00000	0.00001	0.00004
	A	!B	-0.00002	-0.00002	-0.00000
	A	!B	0.00185	0.00268	0.00673
	B	A	0.00308	0.00371	0.00607
	B	A	0.00004	0.00004	0.00004
	B	A	-0.00004	-0.00004	-0.00003
	B	A	0.00402	0.00465	0.00701
	B	!A	0.00358	0.00430	0.00796
	B	!A	-0.00001	-0.00001	-0.00000
	B	!A	0.00001	0.00001	0.00002
	B	!A	0.00221	0.00292	0.00658

XOR3X0P5H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P5H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P5H7L	0.00165	0.00085	0.00094	0.04514

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P5H7L	0.00000	5.66192	7.15953

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7L	A->Y (-R)	-	0.09044	0.24241	0.62148
	B->Y (-R)	-	0.09935	0.25592	0.63888
	C->Y (RR)	(A * B) + (!A * !B)	0.04967	0.18513	0.51346
	C->Y (FR)	(A * !B) + (!A * B)	0.07715	0.22705	0.59453

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7L	A->Y (-F)	-	0.11511	0.22764	0.49212
	B->Y (-F)	-	0.12466	0.24271	0.51335
	C->Y (FF)	(A * B) + (!A * !B)	0.05667	0.17622	0.46213
	C->Y (RF)	(A * !B) + (!A * B)	0.08239	0.17441	0.37919

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7L	A	-	0.00304	0.00366	0.00572
	A	-	0.00005	0.00005	0.00006
	A	-	0.00004	0.00004	0.00004
	A	-	0.00286	0.00341	0.00522
	B	-	0.00337	0.00371	0.00484
	B	-	0.00007	0.00007	0.00007
	B	-	0.00003	0.00003	0.00004
	B	-	0.00316	0.00341	0.00430
	C	(A * B) + (!A * !B)	0.00084	0.00106	0.00190
	C	(A * B) + (!A * !B)	0.00005	0.00005	0.00005
	C	(A * B) + (!A * !B)	-0.00006	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00161	0.00185	0.00269
	C	(A * !B) + (!A * B)	0.00218	0.00245	0.00336
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00002
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00002
	C	(A * !B) + (!A * B)	0.00164	0.00191	0.00282

Internal switching power(pJ) to Y falling (conditional):

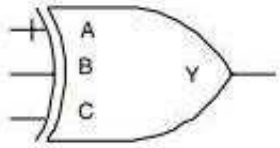
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7L	A	-	0.00343	0.00399	0.00584
	A	-	-0.00000	0.00000	0.00002
	A	-	0.00008	0.00011	0.00013
	A	-	0.00341	0.00387	0.00528
	B	-	0.00377	0.00404	0.00496
	B	-	0.00000	0.00002	0.00003
	B	-	0.00008	0.00010	0.00012
	B	-	0.00331	0.00356	0.00444
	C	(A * B) + (!A * !B)	0.00184	0.00209	0.00309
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00005	0.00005	0.00006
	C	(A * B) + (!A * !B)	0.00106	0.00130	0.00230
	C	(A * !B) + (!A * B)	0.00154	0.00177	0.00258
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00002	0.00002	0.00002
	C	(A * !B) + (!A * B)	0.00208	0.00231	0.00314

XOR3X0P7H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P7H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P7H7L	0.00165	0.00085	0.00096	0.05128

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P7H7L	0.00000	5.70370	7.23133

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7L	A->Y (-R)	-	0.08886	0.24119	0.62026
	B->Y (-R)	-	0.09795	0.25488	0.63792
	C->Y (RR)	(A * B) + (!A * !B)	0.04832	0.18421	0.51326
	C->Y (FR)	(A * !B) + (!A * B)	0.07548	0.22569	0.59327

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7L	A->Y (-F)	-	0.11300	0.22531	0.48803
	B->Y (-F)	-	0.12276	0.24061	0.50960
	C->Y (FF)	(A * B) + (!A * !B)	0.05554	0.17497	0.45985
	C->Y (RF)	(A * !B) + (!A * B)	0.08091	0.17272	0.37603

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7L	A	-	0.00303	0.00365	0.00571
	A	-	0.00005	0.00005	0.00005
	A	-	0.00004	0.00005	0.00008
	A	-	0.00285	0.00341	0.00522
	B	-	0.00336	0.00370	0.00483
	B	-	0.00003	0.00003	0.00008
	B	-	0.00003	0.00003	0.00004
	B	-	0.00315	0.00341	0.00430
	C	(A * B) + (!A * !B)	0.00084	0.00106	0.00193
	C	(A * B) + (!A * !B)	0.00005	0.00005	0.00005
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00163	0.00185	0.00272
	C	(A * !B) + (!A * B)	0.00218	0.00245	0.00338
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00001
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00164	0.00191	0.00282

Internal switching power(pJ) to Y falling (conditional):

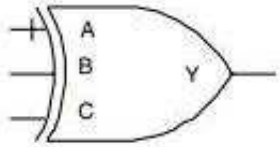
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7L	A	-	0.00338	0.00397	0.00583
	A	-	-0.00005	-0.00004	0.00004
	A	-	0.00010	0.00011	0.00014
	A	-	0.00342	0.00386	0.00527
	B	-	0.00373	0.00402	0.00495
	B	-	0.00002	0.00002	0.00003
	B	-	0.00007	0.00010	0.00013
	B	-	0.00327	0.00355	0.00444
	C	(A * B) + (!A * !B)	0.00186	0.00210	0.00314
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00004	0.00005	0.00005
	C	(A * B) + (!A * !B)	0.00106	0.00131	0.00235
	C	(A * !B) + (!A * B)	0.00154	0.00177	0.00260
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00003
	C	(A * !B) + (!A * B)	0.00209	0.00231	0.00320

XOR3X1H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1H7L	0.00164	0.00085	0.00098	0.06094

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1H7L	0.00000	5.77434	7.35173

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7L	A->Y (-R)	-	0.09053	0.24379	0.62401
	B->Y (-R)	-	0.09953	0.25737	0.64165
	C->Y (RR)	(A * B) + (!A * !B)	0.04917	0.18641	0.51776
	C->Y (FR)	(A * !B) + (!A * B)	0.07508	0.22573	0.59340

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7L	A->Y (-F)	-	0.11532	0.22942	0.49480
	B->Y (-F)	-	0.12491	0.24458	0.51608
	C->Y (FF)	(A * B) + (!A * !B)	0.05706	0.17880	0.46740
	C->Y (RF)	(A * !B) + (!A * B)	0.08152	0.17474	0.37957

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7L	A	-	0.00308	0.00373	0.00580
	A	-	0.00004	0.00005	0.00007
	A	-	0.00004	0.00005	0.00007
	A	-	0.00294	0.00350	0.00532
	B	-	0.00344	0.00378	0.00492
	B	-	0.00006	0.00006	0.00006
	B	-	0.00004	0.00004	0.00006
	B	-	0.00321	0.00349	0.00439
	C	(A * B) + (!A * !B)	0.00092	0.00114	0.00203
	C	(A * B) + (!A * !B)	0.00003	0.00004	0.00004
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00171	0.00194	0.00284
	C	(A * !B) + (!A * B)	0.00222	0.00250	0.00345
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00001
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00167	0.00197	0.00288

Internal switching power(pJ) to Y falling (conditional):

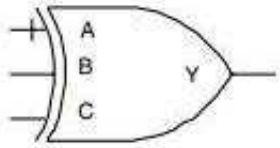
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7L	A	-	0.00353	0.00409	0.00594
	A	-	-0.00000	0.00001	0.00002
	A	-	0.00009	0.00011	0.00014
	A	-	0.00352	0.00396	0.00537
	B	-	0.00387	0.00414	0.00507
	B	-	-0.00003	0.00007	0.00458
	B	-	0.00005	0.00006	0.00013
	B	-	0.00340	0.00368	0.00482
	C	(A * B) + (!A * !B)	0.00196	0.00222	0.00331
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00003
	C	(A * B) + (!A * !B)	0.00004	0.00005	0.00005
	C	(A * B) + (!A * !B)	0.00116	0.00141	0.00250
	C	(A * !B) + (!A * B)	0.00162	0.00185	0.00269
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00000
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00002
	C	(A * !B) + (!A * B)	0.00216	0.00239	0.00323

XOR3X1P4H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1P4H7L	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1P4H7L	0.00164	0.00085	0.00100	0.06951

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1P4H7L	0.00000	5.88515	7.49420

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7L	A->Y (-R)	-	0.09109	0.24497	0.62617
	B->Y (-R)	-	0.10009	0.25852	0.64462
	C->Y (RR)	(A * B) + (!A * !B)	0.04876	0.18677	0.51921
	C->Y (FR)	(A * !B) + (!A * B)	0.07475	0.22584	0.59387

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7L	A->Y (-F)	-	0.11372	0.22800	0.49212
	B->Y (-F)	-	0.12339	0.24314	0.51331
	C->Y (FF)	(A * B) + (!A * !B)	0.05701	0.17912	0.46732
	C->Y (RF)	(A * !B) + (!A * B)	0.08152	0.17492	0.37877

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7L	A	-	0.00315	0.00380	0.00590
	A	-	0.00002	0.00002	0.00006
	A	-	0.00001	0.00005	0.00005
	A	-	0.00295	0.00353	0.00537
	B	-	0.00347	0.00384	0.00503
	B	-	0.00005	0.00006	0.00006
	B	-	0.00002	0.00004	0.00004
	B	-	0.00328	0.00354	0.00444
	C	(A * B) + (!A * !B)	0.00095	0.00119	0.00211
	C	(A * B) + (!A * !B)	0.00004	0.00004	0.00004
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00175	0.00199	0.00292
	C	(A * !B) + (!A * B)	0.00225	0.00254	0.00349
	C	(A * !B) + (!A * B)	-0.00001	0.00001	0.00004
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00169	0.00200	0.00291

Internal switching power(pJ) to Y falling (conditional):

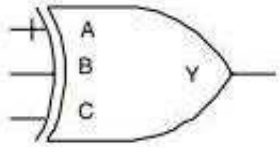
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7L	A	-	0.00358	0.00414	0.00601
	A	-	0.00001	0.00001	0.00003
	A	-	0.00009	0.00010	0.00013
	A	-	0.00358	0.00402	0.00543
	B	-	0.00391	0.00419	0.00514
	B	-	0.00002	0.00003	0.00005
	B	-	0.00008	0.00009	0.00011
	B	-	0.00346	0.00370	0.00463
	C	(A * B) + (!A * !B)	0.00200	0.00227	0.00342
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00004
	C	(A * B) + (!A * !B)	0.00004	0.00005	0.00005
	C	(A * B) + (!A * !B)	0.00120	0.00146	0.00261
	C	(A * !B) + (!A * B)	0.00166	0.00190	0.00275
	C	(A * !B) + (!A * B)	-0.00001	-0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00221	0.00244	0.00333

XOR3X2H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X2H7L	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X2H7L	0.00165	0.00086	0.00095	0.09003

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X2H7L	0.00000	6.40863	8.27484

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7L	A->Y (-R)	-	0.09845	0.25440	0.63954
	B->Y (-R)	-	0.10690	0.26715	0.65537
	C->Y (RR)	(A * B) + (!A * !B)	0.05154	0.19240	0.52926
	C->Y (FR)	(A * !B) + (!A * B)	0.07874	0.23139	0.60083

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7L	A->Y (-F)	-	0.11896	0.23653	0.50482
	B->Y (-F)	-	0.12800	0.25093	0.52489
	C->Y (FF)	(A * B) + (!A * !B)	0.06109	0.18720	0.48159
	C->Y (RF)	(A * !B) + (!A * B)	0.08747	0.18396	0.39121

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7L	A	-	0.00342	0.00409	0.00630
	A	-	0.00003	0.00003	0.00007
	A	-	0.00002	0.00005	0.00005
	A	-	0.00317	0.00374	0.00561
	B	-	0.00374	0.00413	0.00541
	B	-	0.00004	0.00005	0.00005
	B	-	0.00001	0.00004	0.00008
	B	-	0.00354	0.00380	0.00470
	C	(A * B) + (!A * !B)	0.00116	0.00140	0.00250
	C	(A * B) + (!A * !B)	0.00003	0.00004	0.00004
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00002
	C	(A * B) + (!A * !B)	0.00191	0.00216	0.00326
	C	(A * !B) + (!A * B)	0.00248	0.00277	0.00370
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00000
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	-0.00000
	C	(A * !B) + (!A * B)	0.00193	0.00222	0.00314

Internal switching power(pJ) to Y falling (conditional):

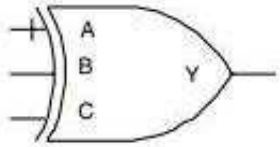
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7L	A	-	0.00391	0.00450	0.00646
	A	-	-0.00000	0.00001	0.00003
	A	-	0.00008	0.00009	0.00010
	A	-	0.00393	0.00439	0.00583
	B	-	0.00425	0.00455	0.00558
	B	-	0.00002	0.00003	0.00003
	B	-	0.00008	0.00009	0.00009
	B	-	0.00382	0.00408	0.00500
	C	(A * B) + (!A * !B)	0.00231	0.00259	0.00400
	C	(A * B) + (!A * !B)	-0.00004	-0.00003	-0.00002
	C	(A * B) + (!A * !B)	0.00003	0.00004	0.00004
	C	(A * B) + (!A * !B)	0.00155	0.00183	0.00324
	C	(A * !B) + (!A * B)	0.00196	0.00220	0.00312
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00251	0.00274	0.00367

XOR3X3H7L

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X3H7L	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X3H7L	0.00182	0.00097	0.00097	0.12858

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X3H7L	0.00000	7.31059	9.48154

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7L	A->Y (-R)	-	0.07865	0.23231	0.60939
	B->Y (-R)	-	0.08974	0.24826	0.63217
	C->Y (RR)	(A * B) + (!A * !B)	0.04408	0.18336	0.51732
	C->Y (FR)	(A * !B) + (!A * B)	0.06556	0.21762	0.58757

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7L	A->Y (-F)	-	0.10050	0.21418	0.47272
	B->Y (-F)	-	0.11158	0.23110	0.49868
	C->Y (FF)	(A * B) + (!A * !B)	0.05048	0.17359	0.46041
	C->Y (RF)	(A * !B) + (!A * B)	0.07244	0.16634	0.36987

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7L	A	-	0.00378	0.00460	0.00729
	A	-	0.00004	0.00004	0.00007
	A	-	0.00008	0.00008	0.00014
	A	-	0.00369	0.00439	0.00666
	B	-	0.00420	0.00463	0.00618
	B	-	0.00006	0.00006	0.00007
	B	-	0.00002	0.00006	0.00009
	B	-	0.00393	0.00427	0.00540
	C	(A * B) + (!A * !B)	0.00142	0.00176	0.00322
	C	(A * B) + (!A * !B)	0.00004	0.00004	0.00004
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00004
	C	(A * B) + (!A * !B)	0.00220	0.00254	0.00400
	C	(A * !B) + (!A * B)	0.00281	0.00316	0.00438
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00000
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00223	0.00260	0.00382

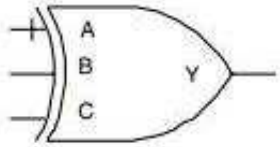
Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7L	A	-	0.00416	0.00487	0.00725
	A	-	0.00000	0.00003	0.00007
	A	-	0.00011	0.00013	0.00015
	A	-	0.00333	0.00403	0.00654
	B	-	0.00452	0.00489	0.00614
	B	-	0.00003	0.00005	0.00006
	B	-	0.00006	0.00010	0.00011
	B	-	0.00405	0.00439	0.00554
	C	(A * B) + (!A * !B)	0.00237	0.00275	0.00458
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00002
	C	(A * B) + (!A * !B)	0.00004	0.00004	0.00004
	C	(A * B) + (!A * !B)	0.00159	0.00196	0.00380
	C	(A * !B) + (!A * B)	0.00214	0.00246	0.00362
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00270	0.00301	0.00419

XOR3X4H7L

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X4H7L	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X4H7L	0.00197	0.00104	0.00102	0.16367

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X4H7L	0.00000	8.55371	11.32700

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7L	A->Y (-R)	-	0.07726	0.22992	0.60322
	B->Y (-R)	-	0.08813	0.24602	0.62755
	C->Y (RR)	(A * B) + (!A * !B)	0.04290	0.18083	0.51015
	C->Y (FR)	(A * !B) + (!A * B)	0.06414	0.21524	0.58237

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7L	A->Y (-F)	-	0.09861	0.20937	0.45688
	B->Y (-F)	-	0.10974	0.22687	0.48515
	C->Y (FF)	(A * B) + (!A * !B)	0.04946	0.17018	0.44898
	C->Y (RF)	(A * !B) + (!A * B)	0.07322	0.16301	0.35391

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7L	A	-	0.00430	0.00522	0.00828
	A	-	0.00000	0.00002	0.00007
	A	-	0.00004	0.00010	0.00015
	A	-	0.00411	0.00491	0.00745
	B	-	0.00470	0.00525	0.00704
	B	-	0.00006	0.00006	0.00007
	B	-	0.00002	0.00007	0.00008
	B	-	0.00441	0.00481	0.00611
	C	(A * B) + (!A * !B)	0.00170	0.00209	0.00389
	C	(A * B) + (!A * !B)	0.00003	0.00004	0.00004
	C	(A * B) + (!A * !B)	-0.00005	-0.00004	-0.00004
	C	(A * B) + (!A * !B)	0.00251	0.00291	0.00471
	C	(A * !B) + (!A * B)	0.00318	0.00360	0.00501
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00000
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00256	0.00298	0.00438

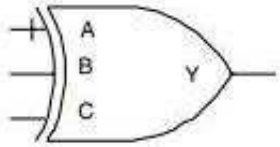
Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7L	A	-	0.00478	0.00559	0.00831
	A	-	-0.00004	-0.00001	0.00007
	A	-	0.00012	0.00014	0.00016
	A	-	0.00494	0.00555	0.00755
	B	-	0.00521	0.00562	0.00710
	B	-	0.00006	0.00006	0.00007
	B	-	0.00008	0.00012	0.00014
	B	-	0.00467	0.00507	0.00645
	C	(A * B) + (!A * !B)	0.00272	0.00317	0.00548
	C	(A * B) + (!A * !B)	-0.00004	-0.00004	-0.00003
	C	(A * B) + (!A * !B)	0.00004	0.00004	0.00005
	C	(A * B) + (!A * !B)	0.00189	0.00234	0.00466
	C	(A * !B) + (!A * B)	0.00262	0.00298	0.00438
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00005
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00324	0.00361	0.00501

XOR3X6H7L

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X6H7L	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X6H7L	0.00195	0.00104	0.00111	0.24619

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X6H7L	0.00000	9.52210	12.94400

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7L	A->Y (-R)	-	0.08562	0.24070	0.61718
	B->Y (-R)	-	0.09668	0.25683	0.64149
	C->Y (RR)	(A * B) + (!A * !B)	0.05038	0.19329	0.53097
	C->Y (FR)	(A * !B) + (!A * B)	0.07169	0.22524	0.59482

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7L	A->Y (-F)	-	0.10974	0.22496	0.47769
	B->Y (-F)	-	0.12090	0.24249	0.50611
	C->Y (FF)	(A * B) + (!A * !B)	0.05909	0.18705	0.47742
	C->Y (RF)	(A * !B) + (!A * B)	0.08456	0.17923	0.37575

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7L	A	-	0.00501	0.00594	0.00925
	A	-	-0.00002	-0.00001	0.00007
	A	-	0.00007	0.00013	0.00020
	A	-	0.00478	0.00558	0.00821
	B	-	0.00545	0.00598	0.00799
	B	-	0.00000	0.00003	0.00005
	B	-	0.00001	0.00010	0.00020
	B	-	0.00507	0.00550	0.00691
	C	(A * B) + (!A * !B)	0.00241	0.00285	0.00523
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00001
	C	(A * B) + (!A * !B)	0.00322	0.00368	0.00605
	C	(A * !B) + (!A * B)	0.00395	0.00438	0.00593
	C	(A * !B) + (!A * B)	-0.00006	-0.00003	-0.00003
	C	(A * !B) + (!A * B)	0.00003	0.00003	0.00012
	C	(A * !B) + (!A * B)	0.00316	0.00367	0.00522

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7L	A	-	0.00545	0.00633	0.00933
	A	-	0.00005	0.00007	0.00009
	A	-	0.00011	0.00011	0.00011
	A	-	0.00453	0.00541	0.00863
	B	-	0.00589	0.00638	0.00813
	B	-	0.00006	0.00009	0.00011
	B	-	0.00008	0.00009	0.00010
	B	-	0.00541	0.00586	0.00753
	C	(A * B) + (!A * !B)	0.00347	0.00404	0.00723
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00264	0.00320	0.00641
	C	(A * !B) + (!A * B)	0.00329	0.00372	0.00542
	C	(A * !B) + (!A * B)	0.00003	0.00003	0.00008
	C	(A * !B) + (!A * B)	-0.00003	-0.00003	-0.00002
	C	(A * !B) + (!A * B)	0.00397	0.00444	0.00613